No. 772 .--- Vol. XX.

LONDON, SATURDAY, JUNE 8, 1850.

PRICE 6D.

SALE OF MINING PROPERTY, STEAM-ENGINE, &c.

MR. JOHN PARK IN will SELL, BY AUCTION, at
LOSTWITHEL CONSOLS MINE, near LOSTWITHEL, on Tuesday, 11th of
June, 1850, at which the MINE, ENGINE, and MATERIALS will be OFFERED in ONE
LOT; and if not sold, the STEAM-ENGINE and MATERIALS will be OFFERED in ONE
LOT; and if not sold, the STEAM-ENGINE and MATERIALS will be SEVERALLY
OFFERED FOR SALE.

The STEAM-ENGINE is a 36-inch cylinder, 10-feet stroke, direct-acting, with iron
cylinder case, and 11 tons boiler; all now two years since, very strong, and embracing
overy modern improvement.

The MATERIALS consist of 1 11-inch lift, 1 8-inch lift, complete, each 13 fathoms,
15-inch plunger-lift, 7 fathoms, capstan, capstan-rope, shears, horse-whim, kibbles,
rods, ladders, anvil, bellows, scales, whim-rope, crabwinch, blocks, tools, with various
lots of iron, timber, ropes, &c.

To be viewed any day before the sale.—Sale to commence at Two F.M. precisely.

CARADON WHEAL HOOPER MINE, parish of ST. CLEER, 4 miles from Liskeard.
MINE SETT, MINING MACHINERY, AND MATERIALS. MINE SETT, MINING MAGRIERALY, AND MATERIALS.

MR. GEORGE TRICKETT will SELL, BY AUCTION, at CARADON WHEAL HOOPER MINE, on Thursday, the 13th day of June, 1850, the whole of the very excellent

MINING MATERIALS AND MACHINERY, in and upon the said mine—consisting of a 30-inch cylinder STEAM-ENGINE, compatible holler, 10 tons.

MINING MATERIALS AND MACHINERY, no and upon the said mine—consisting of a 30-inch cylinder STEAM-ENGINE, complete, boiler, 10 tons.

Balance-bob, capstan, shears, 75 fathoms of 1C-inch rope, horse-whim, kibbles, water sarrels, pulleys, whim chains, main slaft-rods, 19-inch plunger case, with stuffing-box usabing, &c. i. 19-inch plunger pole, 19-inch working barrel, 5 10-inch pumps, 18-inch uninger pole, 29-face 19-inch working barrel, 5 10-inch pumps, 18-inch uninger pole, 29-face 19-inch working barrel, 5 10-inch pumps, 18-inch uninger pole, 29-face 19-inch working barrel, 5 10-inch pumps, 18-inch uninger pole, 29-face 19-inch uninger pole, 29-face 19-inch uninger pole, 21-inch uninger pole, 29-face 19-inch uninger pole, 21-inch uninger pole, 29-face 19-inch uninger pole, 21-inch uninger pole, 21-inch uninger pole, 29-face 19-inch uninger pole, 21-inch uninger pole,

WALUABLE FREEHOLD ESTATE.—MINERAL PROPERTY, with the COLLIERY and FIRE-BRICK WORKS, and all the VALUABLE PLANT, &c.

and FIRE-BRICK WORKS, and all the VALUABLE PLANT, &c.

MESSRS. FAREBROTHER, CLARK, & LYE will SELL
at Garraway's, on Thursday, June 27, at Twelve, by order of the Devisees in
Trust, of the late J. F. Hanson, Esq., a very valuable MINERAL PROPERTY, situate
in the Parishes of HEULIJS and LLANTARNAM, five miles from the town and port of
Newport, with communication by the Monmouth Canal, on which there is a wharf at-

in the Parlsmos of Research
Keeport, with communication by the Monmouth Canal, on which there is a winest actached to the works.

The estate comprises 376 acres, and contains COAL OF EXCELLENT QUALITY,
and ironstone running under the whole extent with limestone, building and paving stone,
excellent manager's house, and 17 cottages; also suitable farm buildings. The minerals
have been partially opened and proved, and the brick works are of sufficient extent to
manufacture 200,000 fire-bricks per month, besides draining tiles. All the coal and iron
measures known in this part of South Wales between the Pennant rock and the earboniferous linestone crop out on the estate, and the carbonidate. The valuable MacHinkery now used on the works will be included in the purchase. The surface rotatal, including cottages, is about £200 per annum. The estate is
frechedd, except 28 acres copyliods at a fine certain, and 37 acres leashold for 99 years, at
a rent of £3 per annum. A railway of two miles in extent, worked by self-acting inclines, has been made through the centre of the property, by which the produce of it is
conveyed to the canal.

Full descriptive particulars may be land one month prior to the sale, at the works; the

onveyed to the canal.

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Full descriptive particulars and in the sale of the particular par

MR. ROBERT EVANS will SELL, BY AUCTION, at the Bridgewater Arms, NEWBRIDGE, on Saturday, June 29th, 1850, between the burs of Two and Three o'clock in the afternoon, subject to conditions of sale to be there roduced, all that very valuable FREEHOLD FARM and LANDS, called RBW YCHA, thate in the Rhondda Valley, in the parish of Llantrissent, in the county of Glamorgan, nataining by estimation 71 acres 1 rood 27 perches, or thereabouts.

The above farm abounds in coal and from mine, and has opened thereon, but not at essent worked, a quarry of excellent paving stones, which are beautifully veined, and hen poilshed become a good substitute for marble; and has passing through it a rail-ay, which connects it with the Taff Vale Railway and the Glamorganshire Canal, from help it is distant about two miles.

which it is distant about two miles.

The tenant, Mr. Thomas Edwards, will show the premises; and further particle had of Mr. Cuthbertson, solicitor, Neath.

MINE MATERIALS FOR SALE.—TO BE SOLD, BY NINE MATERIALS FOR SALE.—TO BE SOLD, BY PRIVATE CONTRACT, for the remainder of the adventurers' term, of which 20 years are unexpired therein, the valuable TIN AND COPPER MINE, called WHEAL ANDERTON, situated near TAVISTOCK, DE YON, with the ENGINE and MATERIALS thereto belonging, comprising an excellent STEAM-ENGINE, of 30-inch cylinder, nearly new, 8-feet stroke in cylinder, and 7-feet in shaft, boller, 7 tons, cash-beam, and case. Also, a 23-linch cylinder MOTAIN-ENGINE, new, boller, 6 tons, drawing machine, and cast-iron stamps—axis attached, to carry 12-heads.

A good WATER-WHEEL, 36-feet diameter, and 33-feet breast, cast-iron axis, with stamps axis (cash), to carry 12-heads.

PITWORK from surface to the 96 fathom level—consisting of 9 and 8-linch pumps, 8 and 7-linch plungers, 2 H-pieces, with clackdoors, windbores, &c., 1 8-linch, 3 7-linch, and 1 6-linch working-barries, all of which are in the best possible condition—the greatest part new within the last thire which are the stamps of 10-linch and 66 fathoms of 8-linch proposition, and 1-condition of 10-linch and 60 fathoms of 8-linch propositions of 10-linch and 6-linch propositions of 10-linch linch 10-linch linch 10-linch 10-lin

a mine.

The attention of miners and adventurers generally are particularly invited, as near 900 worth of tin and copper has been raised from the mine during the last three years of the mine is now in work.

For inspecting the mine, application abould be made to Capt. Carpenter, on the mine of further particulars by letter, addressed "Wheal Anderton Committee, Royal Hotel mouth."—Dated Royal Hotel, Plymouth, May 28, 1880.

Plymouth."—Dated Royal Hotel, Plymouth, May 28, 1850.

TO CAPITALISTS,—More particularly those concerned in MINING OPERATIONS.—WILL BE SOLD, if a suitable offer is made, in the county of COEK, a most desirable PROPERTY, containing SIX HUNDRED and FIFTY-EIGHT ACRES, statute measure, let to one solvent tonant, at the yearly rent of £420 per annum, for the term of 99 years, 30 of which have expired.

The property is situated within 4 miles of the post town of CLONAHILTY, and the lands are of the first quality; the rent is punctually paid by the lessee, who has an interest of fully £400 a-year out of the lands, and the poor-rates have never exceeded 28, 3d, in the £1.—To a Capitalist or Mising Company this would be a most valuable investment, as there is no doubt of there being both COPPER and LEAD MINES on it. The Royalty would be sold with the property—the great advantage of having the Royalty to such parties is too apparent to require comment.

Should a liberal offer be made to the proprietor, Sir John Barry, Bart., Sandy-Mount, Dublin, he will sell the property under the "Encumbered Estates Act," which will expedite the sale, and ensure the title; but ample security must be given as to the honour-sable intention of the unrise offering, as there is no necessity for the sale of the pro-

able intentions of the parties offering, as there is no necessity for the sale of the property, and it will not be sold without the full value of it is given.—Further particulas will be given on application to Sir John Barry, Bart., Sandy Mount, Dublin.

EAST OF SCOTLAND MALLEABLE IRON COMPANY AST OF SCOTLAND MALLEABLE IRON COMPANY.

—The Directors have been authorised to RECEIVE OFFERS for the PURCHASE, of LEASE, of the MALLEABLE IRON WORKS at DUNFERMLINE—comprising a STEAM-ENGINE, of 80-horse power, working the machinery, consisting of FORGE and 2 PUDDLE BAR TRAINS, of is inches diameter, HAMMER and FATENT SHING-LING MACHINE; also a 16-inch MERCHANT BAR OF RAIL MILL, a 18-inch MILL, for ordinary sized merchant bars, and an 8-inch GUIDE MILL, 13 PUDDLING FURNACES, and 6 MILL FURNACES—the whole capable of producing 190 tons of barlion weekly.

A REFINERY STEAM-ENGINE, of 45-horse power, with blowing apparatus, com-A complete SET of WORKSHOPS, containing a 20-horse power STEAM-ENGINE, driving a powerful roll-turning lathe, and blowing apparatus for smiths first.

A PUMPING and CLAY MILL STEAM-ENGINE, of 16-horse power, used for the manufacture of fire-brick, and pumping water for supply of engines.

Also, in course of erection, a STEAM-ENGINE, of 80-horse power, intended to drive the mills apart from the forges, having strong cast-ron framing laid down, and machinery saitable on the premises, which could be brought into active operation in a short period-freent kinds.

Offers will also be received for the PURCHASE of the ESTATE of TRANST, consisting of about 107 imperial acres, with elegant MANSION-HOUSE and PLEASURE GROUNDS, straated about half a mile to the east of the town of Dunfermiline.

Applications may be made to Mr. James Inglis, Chairman of the Company: or to Johnstone, Bussell, and Craig, writers, Dunfermiline, March 16, 1860.

TO CONTRACTORS, BUILDERS, AND OTHERS.

TO BE SOLD, BY PRIVATE CONTRACT, the ENGINES, MACHINERY, &c., which have been used in the erection of the Britannia-bridge, consisting of ONE 46-horse HIGH-PRESSURE ENGINE, with 18-inch cylinder, and 3-feet 6-inch stroke, with boller complete, drum and hoisting gear; cone HIGH-PRESSURE-ENGINE, with 14-inch cylinder, and 3-ft. stroke, with portable boller complete, drum and hoisting gear; traveling cranes, landing cranes, setting machines, single and double purchase crabs, blocks, chain and tackle of every description, and of first-rate quality.—Application to be made to Messrs. B. J. Nowell and Co., at the works, Britannia-bridge, Bangor, North Wales.

POBERT MUSHET'S IMPROVED CAST-STEEL. TRIAL of this IMPROVED STEEL.

Engineers and Manufacturers in general are respectfully invited, to MAKE A TRIAL of this IMPROVED STEEL, which will bear more heat in the working, and which is calculated to endure more hardship, than any Cast-Steel hitherto offered in the market. For TURNING and PLANIBG TOOLS this improved Cast-Steel will stand better, and keep its edge longer at double or even triple speed, than the best Sheffield Steel at ordinary speed.

Samples, or any larger quantities, drawn to sizes, may be had on application, by letter, to "The West Dean Steel Company," Coleford, Gloucestershire.

STIRLING'S PATENTS FOR IMPROVEMENTS IN IRON.—1. TOUGHENED CAST-IRON, which is double the strength of ordinary cast-iron, and only from 10s. to 12s, per ton extra.

2. ANTI-LAMINATING RAILS and TIRES for WHEELS at an extra price of about 7s. 6d. per ton. Also IMPROVEMENTS in the MAKING of WROUGHT-IRON—saving one process to the manufacturer.

Further particulars and terms of license, &c., may be obtained on application to Moses. Gardner and MacAndrew. 27, Queen-street, Cheapside; and the Scotch agen Messrs. W. and J. H. Johnson, 166, Buchanan-street, Glasgow; and 20, St. Andrew square, Edinburgh.

ONDON AND NEWPORT IRON-WORKS, NEWPORT, ONDON AND NEWPORT IRON-WORKS, NEWPORT,
MONMOUTISHIRE.—The PROPRIETOR of the ABOVE WORKS, anding the
great and increasing demand for his PATENT FOUNDRY FURNAGE to claim entire
attention, he is induced to offer his very valuable and convenient FOUNDRY PREMISES
FOR SALE, together with the STOCK and FLANT, complete, and ready for immediate
occupation; the growing prosperity of Newport, and its increasing facilities by railway,
render this an opportunity seldom occurring; the purchasers will also be entitled to the
manufacturing privilege of South Waiss for the "Fatent Furnaces." from 50 to 100 tons
may be done on the premises with ease, there are three powerful crance, and a "Patent
Foundry Furnace" erected, which has been in successful operation for the last 6 months.
For further particulars address
JOSEPH DEELEY,
London and Newport Iron-Works, Newport, Mon.

London and Newport Iron-Works, Newport, Mon.

INSTON IRON WORKS, NEAR SHEFFIELD—

Mesers. RANGELEY, WRIGHT, and Co. Invite the attention of IRON MANUFACTURERS, IRON FOUNDERS, &c., to their DERBYSHIRE FIG-IRON (smelted
entirely with coke), which they can wike confidence recommend for all purposes where
purity of metal, combined with tenacity or atrength, is an object. Their No. 3 pig-tron
is sufficiently fluid for all descriptions of foundry-work. PiPING made from this quality will admit of almost any amount of hydraulic pressure. As a mixture with tender
irons, or for purposes requiring great strength, their No. 4 is particularly adapted. For
PORGE FURPOSES, the loss from waste in cinder, &c., is much below the usual average, and the product a very superior from.
Messra. R., W., and Co. also beg to inform RAILWAY CONTRACTORS, ENGINEERS.
OAS and WATER-WORKS COMPANIES, BUILDERS, MILLWRIGHTS, &c., that
having purchased an extensive assortment of models and apparatus from Mossra. Win,
Graham and Co., of Milton Iron-works (who have declined business), and having engaged experienced workmen from that establishment, they are in a position to furnish
ALL DESCRIPTIONS OF CASTINGS, suitable for the above branches, and at moderate prices.

S NOWDON COPPER MINE, in the parish of BEDDGE-LERT, county of CAERNARYON. ON THE COST-BOOK PRINCIPLE.

LERT, county of CAERNARYON—ON THE COST-BOOK PRINCIPLE.

In 2048 ahares, of £5 each.—Deposit £8 per share, without further calls—the remaining £3 being reconsisted per share, without further calls—the remaining tupwards of £8000 hare best each returns of the mine.

Upwards of £8000 hare best each returns of the mine.

Upwards of £8000 hare best each returns any be estimated at from 40 to 50 tons per month, according to the mining strength employed. There are now ready for sale upwards of 30 tons of ove.

Inorder to extend the operations of the mine, and carry out some valuable discoveries for mineral icdes, the mine is now divided into 3048 shares, of which 1048 are offered to the public, subject to the before-mentioned deposit as working costs.

For prospectuess, with full particulars and reports, apply to Mr. Manieri, 2, Scott's—yard, duali-lano, Cannon-street, where spectuess of the ore may be seen.

WARLEGGAN CONSOLS TIN AND COPPER MINES.

(Situated on the CARADON RANGE, in the parish of WARLEGGAN, in the COUNTY OF CORNWALL.)

CONDUCTED ON THE COST-BOOK SYSTEM.

The public are respectfully informed that the SHARE LIST in these MINES is CLOSED.—Reports of the working of the mines may be seen, and any further particulars obtained, at the offices, 28, Threadneodie-street, London.

June 4, 1850.

W. L. TERNAN, Secretary.

WARWICKSHIRE MINING COMPANY
Capital £29,004, in 4000 shares, of £5 each.
Deposit 2s. £d. per share.
Provisionally Registered, inpursuance of 7 and 8 Victoria, cap. 110.

Messrs. SMITH, PANNE, & SMITHS, London.
Messrs. LITILE & WOODCOCK, Coventry.
Messrs. ATTWOODS & SPOONER, Birmingham.

Messrs. WOODCOCK, TWIST, & SON, Coventry.

Mr. GEORGE FOWLER, No. 9, Lincoln's Inn-fields, London.
PROSPECTUSES may be obtained on application to Messrs. Field, Son, and Wood,
Warnford-court, Throgmorton-street, London; Mr. George Fowler, No. 9, Lincoln's Innleids, London; Messrs. Brown and Clarke, Coventry; and Messrs. Lane and Perry,
Waterloo-street, Birmingham.

One Vice-President by the whole body, from each of the tures classes. Eight Associates by the whole body from the first class.

Four Associates by the whole body from the thrict class.

The Secretary to be appointed by the whole body, from either class of the society. Ill these officers and associates to be belightle for re-election. No officer to be entitled to a remneration except the secretary. Application for a share in either class to be made in writing, containing the name ddress of the party, to G. W. Fickthern, Esq., the secretary pro tem.

The first applicants will, in every case, have the preference.

Callington, May 27, 1850.

FORM OF APPLICATION.

Szs.—You will please to enter my name as a me a the —— Class. To G. W. Pickthorn, Esq. Moditon Cottage, Callington.

EAST OF SCOTLAND MALLEABLE IRON COMPANY.

-Notice is hereby given, that a SPECIAL GENERAL MEETING of the share-—Notice is heroby given, that a SPECIAL GENERAL MEETING of the share-holders of the EAST OF SCOTLAND MALLEABLE IRON COMPANY will be HELD within the Town House of Dunfermilic upon Thursday, the 23d day of August next, 1850, at Twelve o'clock noon, for the purpose of considering a proposal to DISSOLVE the said COMPANY, and to SELL and realist the whole PROPERTY and ESTATE, and FUNDS and EFFECTS of the Company, and finally to wind-up the Company's affairs—all in terms of the 37th clause of the Contact of Copartnery of the said Company.

Dunfermline, Feb. 6, 1850.

WANTED, in a MANUFACTURING BUSINESS and IRON TRADE, A PARTNER, who can command from 46000 to 48000, and who may be actively engaged or otherwise. The business is well established, and in full operation, yhelding good profits, and capable of considerable improvements.—Communications, addressed to "A. B.," 25, Basinghall-street, London, will have prompt attention N.B.—Mone but principals will be treated with.

O MINING COMPANIES AND SMELTMILL PRO-PRIETORS.—WANTED, an ENGAGEMENT, by an experienced ASSAYER and GENERAL SMELTING-WORKS AGENT, of long experience in the north of England.—Apply per letter (pest-paid) to "S. W. A.," Post-office, Alston, Cumberland.

DARSEY'S PATENTED COMPRESSED AIR-ENGINES, applicable to Locomotive, Mining, and Stationary purposes, especially where is applicable to collectionable. The duties of branch lines with small traffic persent data great saving. The economy will give a cheerful feature to the present deseed state of railway property. The small engine may be seen, information given, licenaes granted, as 459, New Oxford-street.

CAMERON'S COALBROOK STEAM COAL & SWANSEA
AND LOUGHOR RAILWAY COMPANY.—LLANELLY BRANCH LINE.—
The directors are ready to RECEIVE TENDERS for the SUPPLY of THREE HUNDRED
TONS of RAILS for the permanent way of this branch line, now in course of construction, to be delivered at Liancily not later than July next. Specifications may be nad at
the Company's office here.

By order, A. C. HOWDEN, Secretary.

Offices, 2, Moorgate-street, London, June 4, 1850.

TO BE DISPOSED OF, in ONE THOUSAND SHARES, of £5 each, that well-known and valuable LEAD WORKS, called the NEW-OROUGH MINE. situated near FESTINIOG, Merionethshire, North Wales.—For parculars apply to Mr. P. Jones, Kewborough Mine, Festiniog, North Wales.

N.B.—An AGENT WANTED to DISPOSE of SHARES in LONDON.

VALUABLE TIN AND COPPER MINE, CORNWALL. The ruling part in the above, surrounded by other excellent mines, and wherein SEVEN LODES of 71N and COPPER are already discovered in extensive workings, to BE DISPOSED OF on such moderate terms as will ensure a handsome realisation. For particulars apply to B. Peach, Esq., solicitor, No. 15, Wine-office-court, Fleet-street, London.

NATIONAL BRAZILIAN MINING ASSOCIATION.— The DIRECTORS' REPORT may be OBTAINED at 26, Throgmorton street.

June 5, 1850.

THE FOLLOWING MATERIALS are WANTED IMMEDIATELY for the USE of LAMBEROOE MINE, near TAVISTOCK.—Tenders to be addressed, as under, stating prices and terms, delivered on the mine:

3 cwits. of WHITE LEAD.

1 cwt. of RED ditto.

1 cwt. of PIG ditto.

1 cwt. of PIG ditto.

1 dozen DODER CANS.

1 dozen LOCKS.

4 pallons LINSEED OIL.

4 bbs. of ZINC NAILS.

JAMES GROFTS. Secretary.

JAMES CROFTS, Secretary.

MINING PROPERTY.—Mr. HERRON has SHARES in the best DIVIDEND MINES FOR SALE, and which will give to the purchaser 17 to 25 per cent. for the outlay; amongst others are the following:—South Tolgus, Trelawny, Devon Great Consols, South Frances, Trevisky and Barrier, Stray Park, Goginan, Laburne, East Wheal Rose, West Buller, Mary Ann, South Wheal Basset, Botallack, United Mines, Treleigh, Tincroft, Bedford United; and in Foreign Mines—St. John del Rey. Limers, Santiago, Cohre. United Morican, and National Brasilian Mines—MINING OFFICES—33, CLEMENT'S-LANE, LOMBARD-STREET.

INING INVESTMENT.-Messrs. BOXALL & CO., TAY LES I M. E. N. 1.—Messi's. BUXALL & CO.,

OROSBY HALL CHAMBERS, BISHOPSCATE-STREET, LONDON, are prepared to BUY and SELL SHARES in most of the Devon and Cornish Mines, including Wheal Carpenter, Tremayne, Tincroft, South Plain Wood, West Polgooth, Wheal Vineent, Alfred Consols, Devon Great Consols, Exmoor Wheal Eliza, Condurrow, Stray Park, Wheal France, Moditonham, Wh. Fortescue, Honnock Silver-Lead, Camborne Consols, and Trehnes—Mossirs, BOXALL & CO. are generally in a position to BUY and SELL at MARKET PRICES in most of the principal Mines in Devon and Cornwall, &c.

MR. EVAN HOPKINS, C.E., F.G.S., CONSULTING MINING ENGINEER,
OFFICE, No. 13, AUSTINFRIARS, LONDON.
Mr. HOPKINS may be consulted daily by Noblemen, Gentlemen, and Capitalists, who have invested, or may wish to invest, their capital in MINES or MINERAL PROPERTIES, on all matters connected therewith (Home and Forlign).

"\*\*Every description of Mineral Property inspected and reported on, and distant capitalists may receive periodical advice, in the German, French, and Spanish Languages.

N.B.—Managers and Directors of Mines, as well as Mining Captains, will find Mr. Hopkins's offices convenient for reference on all matters connected with mining, as he has all the Maps on the Geology and Mines of the United Kingdom, the majority of which are from his own observations. The emigrants to California and other gold districts are also furnished with instructions on good mines, deposits, and machinery for the same.

MR. JAMES CROFTS, of No. 4, KING-STREET, CHEAPSIDE, takes the liberty of soliciting the attention of CAPITALISTS to the MINING INTERESTS of GREAT BRITAIN, as offering, at this time, the SAFEST MEDIUM OF INVESTIAENT of any adventures of an acknowledged speculative character, and TENDERS his SERVICES generally for the PURCHASE and SALE of MINING SHARES.

Mr. CROFTS has at present FOR SALE SHARES in most of the MINES of repute, comprising the Tavistock District, and also in Roche Rock, West Providence, Esgair Liee, Cwm Erfin, Bodeal, Liwynmaicos, Wheal Trescol, West Tolgas, Grambler and Saint, Aultyn, Wheal Vincenti, Wheal Sarah, and Tokenbury; and is a BUTER in Lamhercos Wheal Marie.

25 Mr. C. Is NOT A DEALER. &c., in SHARES for his own account, but only for principals

MESSRS. WATSON & ENSOR, MINING AGENTS, 4, TOKENHOUSE-YARD, LOTHBURY, LONDON.

MR. TRIPP, MINE AGENT, EXCLUSIVELY FOB PRINCIPALS, Is instructed to BUY and SELL in most of the best DIVIDEND-PAYING MINES; also in NEW ONES, having present and prospective advantages.

MINING OFFICES.

ST. MICHAEUS CHAMBERS, ST. MICHAEUS-ALLEY, CORNHILL, LONDON.

MR. T. A. READWIN, MINING OFFICES, winchester-buildings, old Broad-Street, London.

MR. C. S. RICHARDSON, CIVIL ENGINEER, LAND
AND MINING SURVEYOR.
NO. 15, OLD BROAD-STREET, LONDON.

MR. GEORGE BATE, Jun., CIVIL ENGINEER AND SURVEYOR, WOLVERHAMPTON. N.B.—UNDERGROUND MINING SURVEYS accurately executed.

JAMES LANE, MINING SHARE DEALER,

ALEXANDER & MOORE, MINING ENGINEERS, 24, 87. VINCENT-PLACE, GLASGOW.

RITISH AND FOREIGN REGISTRY OFFICE.—
PARTIES having MINERAL ESTATES, COLLIERIES, or MINES, FOR SALE,
OF SHARES TO DISPOSE OF, in DIVIDEND MINES, or OTHERS, by enclosing a
list of the number and price of such shares, and particulars of such property, the same
will be REGISTERED FOR SALE, and commission charged only on asies taking place.
Money advanced if required.—Apply to Measure, DURRANT & Co., 58, Lombard-street,

EAST WHEAL GEORGE.—The Ordinary BI-MONTHLY MEETING of adventurers will be HELD at the offices, 25, Fleet-street, London, on Tuesday, the 11th June inst., at the hour of Five precisely, to audit and pass the accounts, and also to receive a communication on the subject of the extension of the sett. 25, Fleet-street, London, June 4, 1850.

HENRY ENGLISH, Hon. Sec.

UADALCANAL SILVER MINING ASSOCIATION—
ADJOURNED MEETING.—Notice is hereby given, that the ADJOURNED MEETING.—Notice is hereby given, that the ADJOURNED Wednesday next, 12th June inst., at Two o'clock, to take into consideration the report received from Capt. Rule, and other business.

34, Broad-street-buildings, London, June 6, 1850.

H. T. RYDE, Secretary.

MINING ALMANACK for 1850.—The SECOND VOLUME of this publication will appear on the 20th inst., with Original Articles and Statistical Matter up to the latest period.—A list of the Contents will appear next Saturday

# Transactions of Scientific Bodies.

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MEETINGS DURING THE ENSUING WEEK.	## C
THIS DAY Geographical—3, Waterloo-place 7 P. Brinish Architects—16, Grosvenor-street 8 P.	
TUESDAY Medical and Chirurgical -53, Berners-street 8 p. Zoological -11, Hanover-square 3 p.	M.
Syro-Egyptian-71, Mortimer-street, Case adish-square . 74 r.	M.
WEDNESDAY Microscopical - 21, Regene-street 7 P. Ethnological - 17, Saville-row 1 P.	Mi
Literary Fund-73. Great Rassell-street	H.
THURSDAY Royal - Somerset-house 8 P. Antiquaries - Somerset-house 8 P.	M.
Royal Society of Literature -4, St. Martin's-place 4 P. FRIDAY Philological—London Library, 12, St. James's square 8 P.	E
Astronomical—Somerset-house 8 P.J	м.
SATURDAY Asiatic -5, New Burlington-street 2 P.	M.

### ROYAL INSTITUTION.

Dr. Faraday's course of lectures on Domestic Chemistry was brought to a close on Saturday, with the subject of Ashes. One of the points he wished particularly to enforce was the great use and importance of the result of combustion, which was in general regarded as refuse, to be thrown away. The ashes which remain after all the combustible parts of the fuel are consumed, may generally be found in the fuel before it is burned, but other parts of ashes are the products of combustion, and not refuse; and these form an important class of bodies. Taking, however, the term "ashes" in its general acceptation, Dr. Faraday first showed the value of the mere refuse of our domestic fires, and gave a short history of the processes by which the clearings out of dust-holes are separated and appropriated to various uses. After the separation of the old pieces of metal, bones, skins, and other heterogeneous substances, the actual ash that remains is employed for manure, and for the, manufacture of bricks, for which latter purpose no other material answers so well. The value of the sifted ashes varies greatly, according to the domand for brick-making—the dust contractor being able at times to obtain 20s, per chaldron for the refuse, whilst at others he can only obtain one-twentieth part of that price. The ashes of plants consist in a great portion of silica, which is found most abundant in the stalks and leaves, and from which they derive their firmness and necessary strength. The amount of silica in wheat straw is equal to 67-90 parts in every hundred, while the quantity in the grain is only 1-18. The silica contained in straw being so abundant, it may be rendered visible and converted into glass by heat, as Dr. Faraday exhibited by burning a straw in the fame of a spiric lamp, and producing, as the result, a minute globule of glass. The proportion of silica varies considerably in various classes of plants. In rushes there is a less proportion than in straw; but in canes silica is so abundant, that accretions of the mineral in a solid state are not unfrequently found inside bamboo canes. That cla a close on Saturday, with the subject of Ashes. One of the points he wished particularly to enforce was the great use and importance of the

PROFESSOR ANSTED'S LECTURES ON PRACTICAL GEOLOGY.

On Thursday, May 30, Prof. Ansted delivered the seventh of his cours of lectures at the Royal Institution, on Practical Geology. On the two pre-vious occasions, he said he had alluded to those vast repositories of mineral fuel which had made our country the mistress of the world in respect to vious occasions, he said he had alluded to those vast repositories of mineral fuel which had made our country the mistress of the world in respect to the economic arts and sciences, and far more happy and prosperous than the nations where what were called "the precious metals" abounded. His lecture that day would refer to the latter, and to other metals. The precious metals were all found in a native state, or in a state so little differing from their condition when in use, that they were at once discernible. Gold, for instance, was scarcely altered by exposure to the atmosphere, and its colour and condition when found, generally was not dissimilar to what they were when in use. Silver, it was true, blackened by exposure, but it was not at all difficult to find out the real nature of the substance. Other metals were mostly found in connection with earthy matter, and were then called ores; and their reduction was sometimes an expensive and costly process. The most important metals found in this state were iron, copper, lead, tin, and zinc. These were all used directly as metals, and also in other ways. A combination of other metals with copper made brass, for instance, and lead was greatly used in the form of common white paint. Another group was more important in their secondary use as pigments than as metals; those were cobalt, chrome, arsenic, mercury, and manganese. Of these mercury was the only one used as a metal, but it was much more used in other ways. Three other metals—nickel, antimony, and bismuth—were rendered most important by association. Mickel was much more used in the manufacture of German silver; antimony in that of type metal; and bismuth in various ways, but chiefly with the object of making other metals more fusible.

The precious metals were gold, silver, and platinum, with some others of inferior importance—such as palladium. The largest proportion of the metals he had named were found in England. Gold was found in some parts of our island plentifully; but not in such abundance as to pay f

abundance; and it was a product of considerable importance. There were also large supplies obtained from different parts of Europe, the Island of Banca, and the Eastern Archipelago. Manganese was found everywhere; about 50,000l, worth was yearly used in England, chiefly in chemical works and dyes. Iron was, however, by far the most important of our minerals—the annual value of the produce being about 9,000,000l.

There were three ways in which these metals were found—viz.: in stream deposits of gravel, in beds, and in mineral veins. Gold, tin, and platinum, were chiefly found in stream workings—the metal being disloged by water passing over the beds, and the particles, being rolled along with the gravel, settled wherever any local occuliarity reduced the rapidity of the stream, so as to allow a deposit. These deposits were afterwards washed, and the metal separated.

In mentioning the quantities of gold obtained, the talented lecturer stated that, although it was mostly found in minute particles, larger pieces were occasionally met with. As, for instance, a lump, weighing nearly 70 ths, and more than 3000l in value, was said to have been found in the Russian mines. An aggregation of small particles soon made a valuable mass; and a single London house had smelted 12 tons of gold from California. It was impossible to estimate the exact quantity; but, in his opinion, there was by no means so much as was supposed in California.

Iron, copper, and manganese, were chiefly obtained in beds. He had already mentioned instances in which iron alternated with seams of coal, and both were mined together.

The lecturer then proceeded to describe mineral veins as crevices in the

The lecturer then proceeded to describe mineral veins as crevices in the

rocks, filled up, in some instances, with substances having a direct reference to the containing rocks, and in others with substances quite distinct from them. One of the most remarkable phenomena in connection with them was their having distinct and definite compass bearings. The minerals, too, it was obvious, must be newer than the rocks themselves which contained them; and it had been established beyond all question that, where veins crossed each other at right angles, the one must be of a different age to the other. The learned fecturer them described at some length, by reference to numerous diagrams, the different peculiarities of veins, as their varying thickness—now dying away to a thread, or disappearing altogether for a short distance, and then re-appearing in their original size, or value, and now expanding in thickness, until they became large nest, or pockets. Having mentioned the oxidas, the sulphurets, and the carbonates, the lecturer said that the mixtures and associations of the metals was a subject of the greatest interest, a thorough knowledge of which often prevented valuable metals being thrown away as waste, when the direct object of the miner was to obtain other metals.

The actual origin of mineral veins, and the causes of their varied conditions, were by no means easy to trace. Many theories had been suggested, none of which were, however, perfectly satisfactory. Werner, a great mineralogist, explained all the phenomena which come under his notice by a reference to the action of water. Another theory pointed to an igneous fluidity, and the filling of the veins with their present contents in a state of vapour. A third theory was based upon the supposed action of electricity passing in currents through water. Perhaps in this diversity of opinion the safest course would be to assume that the veins themselves were simply mechanical results, either of subterranean disturbance, opening into great depths below the surface, or of contraction, sometimes proceeding to great depths below the surfac

# Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK. Tuesday... East Wheal George Mining Company—offices, at Five.

Ehoawiddol and Escheiddon Mising Company—offices, at The South Type Colliery Company—offices, at One.

WEDNESDAY... Guadaleanal Silver Mining Association—offices, at One.

Mexican and South American Company—offices, at One.

THURSDAY... Eastern Counties Railway—London Tavern, at Two.

Grand Junct'on Water-Works Company—offices, at Twelve.

FAIDAY.... Church of England Life and Fire Assurance Co.—offices, at Eleven.

[The meetings of Mining Companies are inserted among the Mining Intelligence.]

BANK OF BRITISH NORTH AMERICA.

The annual meeting of this corporation was held on Tuesday, the 4th inst, at the offices, St. Helen's-place, Bishopsgate-street.

WILLIAM CHAPMAN, Esq., in the chair.

The SECRETARY (George de B. Attwood, Esq.,) having read the advertise-

ent convening the meeting,

The CHAIRMAN said this was the 14th meeting of the proprietors, and, is

The CHAIRMAN said this was the 14th meeting of the proprietors, and, in pursuance of the provisions of their charter, and following the course previously adopted, he would request the secretary to read the report of the directors and the balance-sheet made up to 31st December, 1849. He would only add, that the directors were ready to give my information which might be required to any of the proprietors.

The SECRETARY then read the following report of the directors:—
In presenting their report on the business of this bank for the year ending 31st Dec., 1849, the court of directors have to remark; that was general state of trade in the colonies during the year, did not warrant in any important degrees a releastation of the restrictive policy upon which, as stated in the last two annual reports, they have felt it to be their duty to act. The opport mittles for profitable employing the capital of the bank have consequently been limited, and a large portion of it had to be held in reserve both in New Tork and Lendon, where it could only be temporarily invested with perfect security at a comparatively low rate of interest. The directors are gratified in being able to state that symptoms of increased commercial activity begin to manifest themselves, especially at their branches in Canada West, arising as they believe from returning agricultural property; and they entertain the expectation that a general revival of sale and remanerative trade will before long be found to extend throughout the entire North American provinces. The coart of directors will anxiously water over provinces. The coart of directors will anxiously water overy indication of improvement, and he ready to aid with the ample capital of the bank every branch of colonial commerce, which they can believe to be based upon sound principles of trade, and conducted with prudence. The experience of the last few years has fully satisfied the directors that they have acted wisely, and have provided the important trust confided to their care, by placing a stri

Deposits	6,970 5,316 5,000	11	
	8,359		
Total£ 1,96	-	4	8
Specie and cash at bankers	3,017 19,558 4,254	6	5
Total£1,906	10.00	*	
Profit and Loss Account from January 1 to December 31, 1849.	44,621	U.	
To dividenda declared as follows:— At Midsummer, 1849, payable July, 1849	,000	0	009
Total	,859	10	9
By balance of undivided net profit to 30th December, 1848			7
and providing for had and doubtful debts	,056	13	2

The Chairman said the report which had been just read to the proprietors called for few observations on his part, and he, therefore, need not occupy much of their time. The description given in the report of the inactive and depressed state of trade in the colonies was a matter which was no doubt familiar to all present. But the directors felt justified is stating that they saw evidences of returning prosperity throughout the colonies, and this he thought applied in a peculiar degree to Upper Canada, where, for some time, they had found a great improvement in the business of the bank, in lits various branches. The directors entertained a well-founded hope that the measures which had been taken by the colonial Government and by the United States for throwing open thematigation of the St. Lawrence, and thus establishing reciprocity of trade between the United States and the colonies, would, if such measures should be carried out, do more to improve, and more to conduce to the rapid prosperity of the colonies than any sket of the solonial Legislature which had been passed for the less 60 years. If this expectation should be realised the directors would, as stated in the report, "anxiously watch everyindication of improvement, and be ready to aid with the ample capital of the bank every branch of colonial commerce." The previous part of the report of the directors referred with gratification to the results which had followed upon an adherence, on their part, to that cautious restrictive policy which, on more than one occasion, the directors had called upon the proprietors to state that the large resources of this bank were no fortunately unfettered as to be immediately available to the extent of the business of this bank in every quarter. He hoped, in conclusion, that they had not been too sampulue in the expectation which they expressed—that expectation areas from an house conviction. He would not take ap any more time, but aloud to gird to conver any information which might be asked.

Captain Exix and he must con The CHAIRMAN said the report which had been just read to the proprieto

instructed him to entertain a strong kope that, at least, the proprietors of this bank would have received a dividemt equal to flast of the Mostreal, which, if he was correct, he believed was 6 per cent. He presumed the chairman would be able to give some sufficient reason for this. The bairman, he presumed, would be able to say whether this state of things arose from this having as immans capital which they had not the means to simpley—whether there were more establishment iman paid—whether they were carried on on a larger scale than they should be—or whether (as the proprietors had no means of knowing) the directors had made a large amount of bad debts. All this he thought might be explained. And here he would state, that one of the proprietors who was not greened, but who had bean a partier in the oldest bank in Norfolk for 30 or 40 years, expressed great dissatisfaction to him (Captain Kelly) on one point especially. That gentleman said that his experience had taugith thin to know that 5 per cent. In the way of trading was no great return. There was a sum of 450,000, which had been lent by other parties to the colonial Government at 6 per cent.; and if their directors had lent that money they would have got 6 per cent. for hir—and there was no risk there. He did not think that as commercial men, or a tradiers, as they were, they should rest satisfied with a return of 5 per cent. for their capital. Under these circumstances, he full compelled, though refluctantly, to declare his dissatisfaction, and he hoped the chairman would give more information to the proprietors. He was ready to receive their expectation of receiving a larger dividend next year, but he could not refrain from saying that those expectations had been held out for several successive years.

The CHAIRMAN was sure that as mercarifile men they would not receive 5 per cont. if they could get 6 per cent. for their money; but in an institution like this, safety of intesting the hold of the heading ingredient or principle. Nor could their case be

that these matters were subject to revision at the end of "veryyear, and that a sum was put by every year as reserve fund to meet bad debts. The amount of the indemnity fund was 45,100f.

Capt. Kelly thought it had been stated last year that it was 43,000f. for bills payable and other liabilities, set apart and intended to neet had debts. What was this fund? The Chalkean said it was the amount reserved.

A PROPRIETOR: It was further stated then that 13,000f. was taken from the profits of 1845. Pt which do know how much was taken from the profits of 1845? The Chalkean: About 4000f.

A PROPRIETOR: Then he understood the sum so deducted was 9000f. loss than last year. The Chalkean: The profits were smaller, as accounted for by the circumstances to which the report adverted.

A PROPRIETOR: There was another item to which he begred to refer—wiz.: that of "bank premises." This had been norecased from 36,000f. to 44,200f. How was this? The Chalkean said, they had been obliged to erect bank premises of their own in Newfoundland; and this formed the principal part of the expense of last year. The directors wished the proprietors to be assured that the subject had occupied the minds of the court.—Capit. Rizk, asked, what so amount of capital unemployed? The Chalkean said, he could hardly say on the spur of the moment. With the exception of the balances at their bankers he could hardly say that any of it was unemployed. A part of it was available within a few days' notice. A large sum was invested at New York upon undenished securities, available at a moment's notice, and for which they received a higher rate of interest.

A PROPRIETOR: How much of the capital was in England?

The Chalkean was the sure age of all that was to say, that 92,000L was the surplus, after paying acceptances. The actual amount of cash now in London was about 75,000f, bearing interest.

A Proprietors: What was the average rate of interest received?

The Chalkean was the was the average rate of interest received?

The Chalkean was the was the avera

The CRAINAM Maid, it was impossible to answer that question at once; but he would value it perhaps at 14 per cent.

A Pacowarron: How much money had they in deposit receipts in the colonics, for which they paid 3 per cent. ?—The CRAINAM Maid, he supposed about 100,0004. currency in all their branches.

He wishes to know why the dividend of the bank was not larger? He did not call into question the expenses of the colonial branches, nor the expenses of the city establishment, but the directors acknowledged that they had in the colonies 100,000. for which they paid 3 per cent.; at the same time there were 60,000, for which they were getting if ye recommended in the colonies in the colony of the control o

ontidence.

In answer to a question from a proprietor, as to the number of the establish the expense thereof, Mr. Curnaras said, they had ten large branches, three minor

the expense thereof, Mr. CUMMESS said, they had ten large branches, three minor branches, and the London establishment.

The CHARMAN said that, from his knowledge of the colonies, it would be impolitic to publish details of the expenses.

Capt. Kenn moved that the report be received and adopted.—Carried unanimously. The three directors retiring by rotation, Henry Barnewall, Esq., Sir Robert Campbell, Bart, and Robert Carrie, Esq., were severally re-elected.

Thanks having been voted to the chalman, the court broke up.

GRAND JUNCTION CANAL.—At the half-yearly meeting of the company, a dividend, at the rate of 4 per cent. per annum, instead of 5 per cent., as here tofore, was declared, leaving a surplus of 918t. The report, which was very abort, was adopted.

WESTMINSTER NEW BRIDGE.—The committee have decided that the Stand-ng Orders may be dispensed with in the case of the promoters of this measure or a temporary bridge at Westminster.

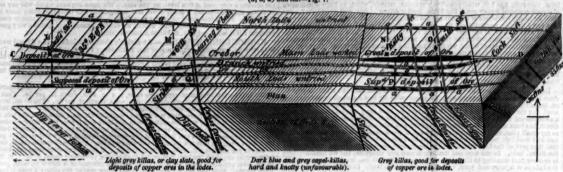
for a temporary bridge at Westminster.

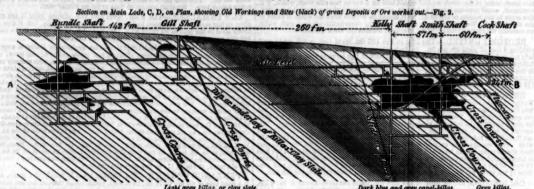
BRITANNIA BRIDGE.—All the preparations are completed for floating the mext tube on Menday. The sailors from Liverpool are engaged, and arrangements have been made for the directors of the Chester and Holyhand Railway, the engineers, and several thousand spectators. A great number of persons are expected to avail themselves of the occasion to visit the headlands of Penman Mawr, Conway Castle, and Snowdon, along the sea-side route of the railway, to all the great works on which the public are to be freely admitted.

A deputation consisting of Sir John J, Guest, Bart, M.P., Mr. W. Crawshay, Mr. Anthony Hill, and Mr. Maypard, have had an interview with Earl Granville, at the office of the Board of Trade.

# THE CREBOR COPPER MINE.

Plan on line A, B, of Section, showing the Main Lode, and the Deposits of Copper Ore found and verought therein, and also the Parallel Lodes and supposed Deposits of Ore (a, a, a) untried,—Fig. 1.





The following report, from Mr. ARTHUR DEAN, C.E., has just been issued by

The following report, from Mr. ARTHUR DEAN, C.E., has just been issued by the committee of ma nagement to the adventurers in Wheal Crebor;—

Tanistee, May 15.—As I cannot attend the general meeting of the shareholders to morrow (16th last), to be held in London, I have made a few memorands on the Crebor Adventure, which I have just impacted, and the general meeting of the shareholders to the other adventurers will be glad to learn something more consensult, as I doubt not the other adventurers will be glad to learn something more consensult, as I doubt not have the consensult of the control of the sett, canal tumnel, lodes, and strais, given by Meszra. Wolferstan and Murray in their respective reports, dated the control of the main lode for the control of the sett, canal tumnel, lodes, and strais, given by Meszra. Wolferstan and Murray in their respective reports, dated the set of the control of the main lode in the control of the control of the main lode in the control of the control o

Company should be exected at this shaft, but I would not recommend any great expenditure on this part of the mine, until the exploration of the side lodes, near Gill, Kelly, Smith, and Cock shafts, has been well pushed forward. If ony expectation of discoveries in those localities are at all realised, I think 1000.0 or 1900. With Indictions management, will more than put the mine in a self-supporting position. The 40-feet wheel is a very good one, and of power sufficient for all the requirements of the mine, at least for many years. The expenditure of a few pounds upon it for repairs, and in securing the south side of the wheel pix will be necessary. The Pavick Canal serves as the least to bring the water from the Tary river to the wheel, and the supply of water is almost unlimited, both for pumping and driving, all necessary uncliniory for crushing, stamping, &c. The canal, which passes through the sett, close to Cock shaft, connects the time with Taviscok and the Tamar river, and renders the carriage of ores and materials most osay and economical. In respect of water power, an easy carriage, it is almost impossible to better situate than is Grebor Mine. The buildings are not in very good order, but 10L or 12L will make them fit for present purposes in conclusion, I mist express the complete satisfaction with our future prospects in this adventure, which the inspection of the property has afforded me. The sum of 3364 to be paid to the old adventurers for the sett and materials, I consider to be a very fair bargain.—Axinux Daam.

PORTRAIT OF MR. BRASSEY.—Mr. Newenham has completed the portrait of this gentleman, the eminent railway contractor, which is to be presented to Mrs. Brassey by the committee associated for that purpose. The picture will remain for inspection at the Caledevian Hotel, Adelphi-terrace, until Saturday, the 15th inst., whon it will be transferred as the engraver.

NORTH-WESTERN RAILWAY.—On Saturday this line and Skipton and Lancaster was opened throughout for public traffic. Five trainers and daily, and passengers are conveyed over the line from Leeds and Bradford & Lancaster and Kendai without change of carriage.

# TURN-OUT OF MINERS IN WALES.

TURN-OUT OF MINERS IN WALES.

[FROM A CORRESPONDENT.]

The stand-out with the miners near Holywell still continues, and the sgitation throughout all the mines is becoming a source of nuisance to shopkeepers, tradespeople, and a many of the peaceable inhabitants of the neighbourhood, from the assemblage of considerable bodies of miners, using threatening language, and demanding from the agent six hours' labour, who has no authority to grant less than eight hours, agreeably with the rules of the mine, made by his employer, and which he dare not alter. On Thursday last, a deputation of two men arrived at the Halkin Mines—a six hours' concern. Their arrival spread like wildfire; and at six on Friday morning, the Halkin men were in fine marching order, armed with big sticks and clubs, when orders were promptly given to march northward on the Pen-yr-henblas Mine, also a six hours' concern, whose men, it appears, were ignorant of this great and import ant movement. However, they were soon got to the surface, and again in marching order. When so reinforced, orders were again given to march on to Milwr—an eight hours' mine. Being there further strengthened, orders were given to meet the main body of the forces from Talargoch (a six hours' mine), at California, about two miles north from Holywell—this spot being selected as the ground for the display of strength and courage, to succeed or die in the attempt to accomplish their grand object of driving away a poor solitary stranger, the agent? After some parley, they broke into his lodging-house, threw him down the stairs, causing him serious injury; and with pulls, kicks, thumps, and pushes, with clubs, got him on his legs again, and drove him in running trot before them, and triumphantly conducted him on board a steamboat plying between Liverpool and Mostyn (4200 the present. What is to be the next great movement has not yet transpired—at least, I have not heard. The ringleaders in this disgrace lafafair are well known to many, and will be identified when the proper sine

MINING OPERATIONS NEAR THE WADEBRIDGE RAILWAY.

MINING OPERATIONS NEAR THE WADEBRIDGE RAILWAY.

About two years ago a sett was obtained of the Boscarne and other estates amounting to several hundred acres of land, the property of the Rev. Phillipps Flamank, the rector of the parish of Lanivet, in Cornwall. Applications had been frequently made to the late proprietor during the last 30 years for a set of these estates, but without success, the late Mr. Flamank having had a great objection to mining operations in his lands, although several very promising lodes had, from time to time, been discovered, varying from 2 to 6 ft. wide, and strongly impregnated with mineral near the surface. An adit level was commenced north of the river, running through these estates near Nanballanbridge railway station, and extended some 80 or 90 fms. in length, through a highly-mineralized clay-slate, commonly termed killas, by means of which a large lead lode was discovered, varying from 6 to 9 ft. in width, containing gossan, flookan, spar, and lead ore, in lumps from 1 lb. to 14 lbs. weight each, and containing, by assay, 73 per cent. for lead, and 38 ozs. of silver to the ton of ore. Operations were commenced with spirit in the spring of this year by a company of London gentlemen, and a powerful steam-engine has been erected, capable of pumping 700 gallons of water per minute; and it is to be hoped that the company will reap a rich reward, which they well deserve from the manner in which every part of their operations seems to be conducted.

The inhabitants of the district are in great spirits, as the men employed (about 50 in number) say they never worked in any new mine in the course of their lives holding out such prospects of success. This lode has been proved by means of sinking of shafts from the surface, to vary from 4 to 9 ft. in width, for upwards of 15 mile in length, and to be intersected in the valley by three large north and south lodes, called cross-courses, and by several other lodes, said to be exceedingly promising for copper, at no great depth from the surfa

IMPROVEMENTS IN BLASTING.—Mr. Speakman, of Philadelphia, has introduced an ingenious alteration in the common method of blasting rocks in mines and quarries, and which is stated to possess many advantages over it. Mr. Speakman calls his invention the "concal wedge tube;" it is composed of strong brown paper, rendered water-proof and formed into a tapering tube, of a sugar loaf or conical form, and which, leing filled with powder, is ready for use; one of these tubes is placed in the hols, and, surrounded with earth, rammed in, and the fire communicated in the ordinary way. The powder being preserved in its wedge-like form, the whole force takes a lateral direction, and the execution on the rock is said to be doubt that by the common method—that is, one-half pound weight of powder will ecomplish equal results with a pound by the old operation of tamping.

A GOLD MINE AT WIGAN!—The neglibourhood of Wigan has long been

by the old operation of tamping.

A Gold Mine at Wigan!—The neglibourhood of Wigan has long been famous for its mineral wealth; and, if we are to believe a report which reached as yesterday, it is about to prove a second California, and to become as celebrated for its gold as it is already for its (black) diamonds. Our reporter there informs us that considerable excitement lad been created by the announcement that some men, who were digging out the foundations of some new shops in Scholes, had discovered a bed of spangled earth, which contained a great portion of gold. He has sent us a specimes of this precious earth, which seems to us (not viewing it probably with the grees of faith necessary to discover its value) very like decayed grante or sanstone, containing many small scales of mica.—Manchester Guardian.

A Despendit Case on Scanner of

of mica.—Manchester Usuardans.

A DESPERATE CASE OF SCROFULA CULED BY HOLLOWAY'S OINTMENT AND PILLS.—Mr. Heydon, of Sydney, wholesale agent for the sale of Holloway's medicines in New South Wales, states that Thomas Evans in the employ of Mr. Charles Thompson of Berambalu, was sorely affilted for years with ecrofula in the neck, and his body was covered with a peculiar kind of pimple, out of which exuded a watery mucus. He had been at considerable expense in trying various medicines, but without any good effect; be then used Holloway's Ointment and Pills, which in a very short period so effectually by all blue, that he has continued in the most perfect health to the present time.—Sold

## MINING NOTABILIA.

(EKTRACTS FR EMCE. 1

We are glad to find that mining operations are extending their sphere, encouraged by the profitable advancement made of late, and the standard of opper, which, although not equal to the expectations of many, will doubtless regain its position, and further advance. Among other projects put forward, the Snowdon district would seem to have excited attention, an advertisement appearing in another column, having for its object the formation of a company to extend the working of the Snowdon Copper Mine, and which is represented to be on a fair course of working, capable of yielding, at the present time, 20 to 30 tons per month, which it is contemplated may be extended to 80 or 100 tons per month. Upwards of 80004 have been expended on the mines, and it is considered, by the extension of the levels and carrying out some new workings south of the present, that large returns may be calculated upon.

ROCHE ROCK TIN MINE.—I have just returned from the mine, where I had the pleasure of meeting Capt. Barrett, who has been appointed to the management, and from whose great practical experience and high character I anticipate the most favourable results to my co-adventurers. I met there also Mr. West, the engineer, of St. Blazey, who has contracted for the removal and ercction of a 50-in. cylinder engine, just bought by this company from an adjacent mine, for much less than one-halt its original cost. This they have been enabled to do by the maker of the smaller engine having liberally consented to cancel the contract, so that we shall now be able fully to develope the mine, and for that purpose a new shaft is being sunk 20 fms. west on the lode (to be called Birch's), which, with the power we now possess, may be sunk full 100 fms. About 40 men are now employed, and the new tribute pitch taken at 10s. in 17. The produce of the last month is about 65£, but this will be considerably increased now the men are fairly at work, as I find, up to the have 10s. in 17. The produce of the last month is about 65£, but this will be conside

over estimated. [Tenclose my card.]—A SHARKHOLDER: Liskeard, June 6.

Tamerton Follot.—Mining operations have been commenced here under the most favourable auspices, and the promise held out, so far as the lodes have been proved, and the nature of the country warrants, would lead to the expectation, which it is hoped may be realised, that this locality will doubtless vie with its neighbour, Beer Ferrers. Two setts are, we understand, now in course of working; the one, Wheal Guiness, looks well, there being a fine lead lode, carrying silver, and a steam-engine is now in course of erection; the other, Wheal Longmaid, which is on the same lode, also holds out great promise, the lode having been cut near surface, 9 to 10 ft. wile, impregnated throughout with rich silver-lead ores. They are now sinking a shaft to take the lode at about 15 fms. deep, in which several strings or branches occur. These are the only mines at present at work, but no doubt can be entertained, if they prove successful, as they at present promise to do, that this will become a most important mining district.

about 10 ims. at present at work, but no doubt can be entertained, if they prove successful, as they at present promise to do, that this will become a most important mining district.

EXHIBITION OF THE INDUSTRY OF ALL NATIONS.—We understand that another week will not expire without some decided step being taken to invite tenders from contractors for the erection of the great building in Hyde-park for the exposition of 1851. It is to be about 2900 feet long, 400 feet wide, and the roof will probably cover 990,000 square feet, or upwards of 20 acres. The principal entrance will be opposite Prince's Gate; all the passages will be 48 ft. wide, left clear and uninterrupted, except by seats, and in the centre, where they meet, will be constructed a grand hall for sculpture, 200 feet in diameter. The lowest portion of the roof over the walks will be 24 feet, and the highest 50 feet; the floor will be of boards, land on joist and sleepers. The central hall will be a polygon of 16 sides, four of which will open into gardens reserved all round it. The walls will be of hrick, 60 feet high, and probably surmounted by a splendid dome. Contractors will be required to tender on two systems—one involving a resumption of property in the materials after the exhibition; and the other on which the whole becomes the absolute property of the commissioners. The whole will have to be completed by January 1, 1851.

Statut's Electric Lioutr.—Mr. Staite exhibited his electric light from the lighthouse on the South Pier, Sunderland, on Monday evening last. He was invited by the commissioners of the River Wear, in order, if found suitable, it might be adopted as the permanent means of illuminating the new dock. Towards evening, thousands thronged the quays and piers; and many took trips to sea to winess the effect of the light several miles from the land. The apparatus was creed upon a temporary platform, raised a few feet above the lighthouse on the South Pier—the galvanic battery being placed in a shed below. We learn, by the Sunderland

the veriest sparks." We understand the commissioners expressed their decided unamimity on the complete success of the experiment.

Electro-Thermo Treegraph.—In the Mining Journal of 16th March we noticed that a patent had been granted to Mr. Thomas, of Norwich, New York, for a new electric telegraph, in which heat was the active agent. We now find that the peculiarity lies in the mechanical arrangement, by which the printing is effected at the terminus of the wires. The galvanic battery is employed as usual for generating the electric current; but after reaching the recording instrument, it is conducted on to an attenuated platinum point, in contact with the paper, which becomes instantaneously heated, or suddenly cold, according as the circuit of electricity is made or broken, the application of the heat producing the mark. Common dry paper may be used for recording, but that which has been chemically prepared will, probably, be found the best. In this manner precisely the same result is produced as by Morse or Bain's telegraph, but without a magnet or decomposing any salts, two peculiarities which form the basis of those systems. In all its details, in all its provisions for signals, and in everything connected with its practical operation, it has been carefully considered, and is said to be as perfect as it is possible to desire. It would appear that there must be somewhat more of merit in this idea than in the generality of American patents, for it is said to have met with a most severe and scrutinising investigation at the patent office; in fact, to a more rigid and critical examination than any patents are ever subject to. Nothing, however, could be found to throw the slightest doubt on its originality, or to conflict with it in the slightest degree. it in the slightest degre

it in the slightest degree.

JORDAN'S PATENT UNITED IRON AND WOOD SHIPS.—A vessel on this new mode of construction is now being built in the Herculaneum Docks, Liverpool, which, when completed, will, doubtless, decide the question as to the superiority of the plan, compared with a vessel built of all iron or all wood. This experimental vessel, although small, is exceedingly elegant in her mould, and exidentic of great through Small is in 50 ft. long, with a mole beams and bearexperimental vessel, although small, is exceedingly elegant in her mould, and evidently of great strength. She is 50 ft. long, with ample beams and bearings; measures 40 tons, but can carry 55 tons, dead weight. The ribs are of strong angle iron, similar to an iron ship; the keel, stem, and stern post, are of wood; and, when closed in the vessel, will have every appearance of a wooden one. The manner in which the iron work of the keelson, apron, and inner stem post are secured to the wooden keel, stem, and stern post, combines greater strength than is obtained in ordinary vessels. The wood ends are secured fore and aft by a double row of bolts; and the planks all along are secured to the iron ribs by bolts and nuts—the bolts being coated with gutta-percha. The deck beams and fastenings are all of iron; the deck of pine. The entire spaces between the ribs will be filled in with asphaltum. The keel was laid so recently as lat May last; and she will be ready for launching next week. Her destination is to coast the island of Demerara, with passengers and goods.

Her destination is to coast the island of Demerara, with passengers and goods.

The Iron-Works of Scotland.—There are four great iron-fields in Scotland, containing 28 works and 135 furnaces, which were in blast in July 1849. The most northerly field lies on both sides of the Forth, and contains 5 works, and 15 furnaces—Devon 1, Forth 5, Lochgelly 2, Kinneil 4, Carron 3. The largest is that of Clydesdale, containing 15 works and 85 furnaces—Garachbe 1, Govan 5, Clyde 7, Gartsherrie 16, Summerlee 6, Dundyvan 9, Calder 7, Carabroe 6, Monkland 3, Omos 4, Coltness 6, Shotts 4, Castlebill 2, Chapel 3, Langloan 6. The most westerly field is that in the north of Ayrshire, containing 4 works and 22 furnaces—Kibirnie 9, Blair 6, Kilwinning 3, Portland 4. The most southerly field lies on the borders of the shires of Ayr. Langk, and Dumfrees, containing 4 works and 13 furnaces—Lugar 4, Dalmellington 9, Saur-kurk 3, Nithadale 3.

## THE NATIONAL BRAZILIAN MINING ASSOCIATION.

aliar circumstances which, for the past few years, have attended—the fact that, from 1835 to 1846, the adit was driven in hard un productive ground, actually only a few feet from, and parallel with, the vein—
the patience and perseverance through which the establishment was kept together—the decided and satisfactory progressive improvement which has
marked the advancing work since 1846—and the prospects which are now open
of future prosperity, render every information, every document connected with the adventure, of much interest; and we have no doubt the following report, by Mesara. Edward Oxenford and William Hamilton (the directors), will meet with that attentive perusal which it deserves, and their feelings and motives in coming to the decision therein explained be duly appreciated.

in coming to the decision therein explained be duly appreciated.

At the present moment, when a prospect has opened upon this association brighter than any which has cheered it for many years, we have considered that it would be interesting to many new, as well as to some of our old shareholders, briefly to trace the history of our mines since we came into possession, and also to refer to seem smitters which, though in a measure personal to correctes, have still a strong bearing on our common interest. It will be seen by a reference to former reports on the Cocase Mines that the primary work of this association was to continue an adit, planned by Mr. Ferdinand Halleld, a German engineer, and driven by the Brazilians, under his direction, from the year 1836 to 1833. The object of this adit, which was advanced from north to south, was to interested, at a considerable depth, the Serra Velha lode, running from west to cast, thereby freeing the old mines from water, and forming an easy an inexponsive passage far the exit of the ores. The mines intended to be worked by means of this adit were the Caraco and Terra Cabida. The Cavaco is to the east—the Cabida to the west of the adit. The lode was intersected in the year 1835; the artiferous stratum was direvan through; but, from a culpable neglect of ampling, remained undiscovered and unworked. The adit, which was now existended easterly, for the purpose of working the Cavaco Mine, was, in consequence, not driven on the auriferous stratum, when it would probably have at least paid its own expenses; but, from the year 1838, was driven at a deal of one through hard unproductive ground, till the beginning of 1846, when a discovery was made that the auriferous bed, containing the velon, was running parallel with, and within a few feet of the add. One of the results will be seen in the following stement of the produce from the Serva Velha lode, before and after the discovery—1845, 751, 10s. 3d.; 1846, 8521. 14s. 1d.; 1847, 47321. 13s. 10d.; 1848, 5323. 5. 3d.; 1849, 51164.

First quarter ... Mks. 33 4 1 03 1849—First quarter ... Mks. 53 1 6 31 Second ditto ... 54 6 2 42 Second ditto ... 54 6 0 33 Third ditto ... 94 6 1 7 Fourth ditto ... 165 3 1 44 173 5 2 63

ting, but has been forced upon us by a concurrence of events we could uselher force out of the could be set of the could be controlled the could be controlled the could be co

The following is the Statement of Accounts from January 1 to December 31, 1849:-Bills drawn in Brazii, and paid in London, for one year's current expense at the mines, including salaries and wages.

wages and passages paid in England, and mine stores sent to Brazil	139	5	5
Freight and insurance on gold	139	18	10
Advertisements, and sundry petties		- 4	6
Interest on loans	453		11.
Direction, anditors, clerk, rent, stationery, foreign postage, and messenger.	950	.0	0
Repayment of advance by Messrs. Oxenford, Hamston, and Hartley	950 1550	0	0
Cash at bankers on 31st December, 1849	98	14	6
Total£	3,353	1	2
STREET, GOOD VILLAND TOURS OF THE ASSETS, DAVING YOUR DADA COLLEGES			
Ralamor at bankers 31st December, 1848	£1843	10	3
Sundry instalments on shares  Proceeds of gold received from the mines:—Per Linnet, 12101. 16s. 5d.; 2	240	0	0

III, 11771. 17s. 9d.; Express, 9311. 8s. 6d.; Adventure, 864f. 4s. 2d.; 7425 17 

GLASS.—A return has been published relative to the export and import trade in foreign and British glass, from which it appears that in the year ending January, 1850, the following quantities of foreign glass were imported:—Of window glass, white or of one colour not exceeding one-minth of an inch in thickness, 25,555 cwts., of which 7671 cwts. were retained for home consumption, producing 12084 duty, at the rate of 3s. 6d. per cwt.; of all glass exceeding one-minth of an inch in thickness, silvered or polished, 68,106 square feet, of which 61,946 were retained for home consumption, producing 12244 duty; of glass painted or otherwise ornamented, 2701 square feet, of which 841 were retained for home consumption, producing 484 duty, at 0d. per square foot; of whith fint glass bottles, not cut, 47,596 lbs., of which 33,326 lbs. were retained for home consumption, producing 484 duty, 40. per 16, of all other white flint glass goods, not cut or ornamented, 71,502 lbs., of which 37,895 lbs. were retained for home consumption, producing 47624, duty, at the rate of 1d. per lb.; of other glass, not otherwise described, 186 cwts., the quantity retained for home consumption being 134 cwts., producing 224, at the rate of 3c, 6d, per wt. The quantities of British glass experted during the same period have been as follows:—Flint glass, 18,184 cwts.; window glass, 17,886-cwts.; plate glass, 66,020 square feet; common glass bottles, 223,108 cwts.; looking glasses and mirrors, to the value of 65971. GLASS.—A return has been published relative to the export and import trad

# Mining Correspondence.

### BRITISH MINES.

ALFRED CONSOLS.—Field's engine-shaft is sunk 6 ft. under the 70 fm. level, lode from 3 to 5 ft. wide, principally arsenical mundle, which we hope is indicative of a good course of copper ore. The 70 fm. level is driven 11 fms. east of said shaft; the lode, for nearly the whole of the driving, has been from 4 to 6 ft. wides, worth 70 ft. per fm. We hope to resume the 6 driving of the 70 fm. level, west of engine-shaft, at our next setting on the 8th inst. The lode in the 60 fm. level, west of said shaft, has during the peat week, been a little sharer, and the change has preduced a small increase of water, which we hope is a favourable symptom. In the 60 fm. level cast the men areful this time driving south, to ascertain the width of the lode. The lode in the winze sinking under the 60 fm. level, cast of Field's engine-shaft, is about 4 ft. wide, just all solid ore, worth from 60.1 to 70, per fm. Wyld's shaft is communicated to the 4 fm. level; there is no change in any other of the taiwork operations since last report. Our tribute pitches, on the whole, are looking well.

RAPRISTOWN.—The lode in the 80 fm. level end east is rather improved.

to the 4 m. lovel; there is no change in any other of the taiwork operations since last report. Our tribute pitches, on the whole, are looking well.

BARRISTOWN.—The lode in the 30 fm. level end east is rather improved since last week, although, at present, it is of no value for lead; a small branch forming on the north well contains more lead than last reported. The stopes in the back of this level, and the bottom of the 26 fm. level, where we have been stoplag, took very poor a slide has cut off the lode in the back of the 30 fm. level. In winze, in order to expedite it, has been sunk on the flookan part of the new lode, which you can see by referring to my small plan, and, consequently, left a cob of the 50 cm, against the eastern part of east and west lode for about 2 fms. high; we have put the men to take this down, in order that that part of the lode may be seen at the present depth of the winse, lo fms. under the 30 fm. level. In the west end the lede is poor and irregular, but we consider there is another part standing to the south of the level. The 26 fm. level end is suspended; the lode in it is large and poor, very thinly mixed with lead. In the rise in the back of this level, to the 18 fm. level, we had a good lode for a day or two this week, which, if it continued, would produce from 8 to 10 cyts, of lead per fm., but at present it is ent out. The stop in the bottom of the 30 fm. level cannot be worked until the winze is holed to the 40 fm. level. When the 10 fm. level, on the 3 fm. level cannot be worked until the winze is holed to the 40 fm. level. Whit is 10 fm. level on 3 fm. level and 3 fm. wide, and PEDERGERT INNITED.—The lode in the 108 fm. level cant is 3 ft. wide, and

continued, would produce from 8 to 10 cwts. of lead per fin., but at present it is ent out. The stope in the bottom of the 30 fm. level cannot be worked until the winze is holed to the 40 fm. level. We have in the 40 fm. level, driving towards the black ground.

BEDFORD UNITED.—The lode in the 103 fm. level cast is 3 ft. wide, and yielding 4 tons of good ore per fm. In Andrew's winze, in this level, there has been no lode taken down; the lode in the stope, in the bock of this level, is still worth 185 per fathom. There has been no lode taken lown in the 90 and 80 fm. levels. In Brays winze, in the 90 fm. level. It levels to the 185 per fathom. There has been no lode taken lown in the 90 and 80 fm. levels. In Brays winze, in the 90 fm. level, the lode is 2 ft. wide, and worth 4 itons of ore per fm. There is no change in the 70 fm. level. We weighed, at Morwelham, on Friday last, March ores 115 tons 7 cwts 2 gras, and sampled April ores, computed 118 tons.

BRYN-ARIAN.—The engine—shaft is now down 9 fms. 5 ft., and, until last Friday, the lode continued to yield upwards of ton of ow per fms., when a alloe came into the shaft, and very much disordered is. We have sunk 8 ft. in the side, and are not yet quite through it. Those has been good stones of era in the slide; the alide as above. The eastern 10 fm. and is much as last reported—a large lode, but poor at present. We have no doubt but that the lode will make quality as good under the alide as above. The eastern 10 fm. and is much as last reported—a large lode, but poor at present. We have cut through the lode driving north from the 10 fm. level west, and fm it for mile to 16 ft. wide. The men have now commenced to drive west on the course of the lode; the partitley are carrying for the level will yield about 12 cwts, of ore per fm. We samples 30 tens of ero on Thursday last, the 6th last.

CALLINGTON.—The lode in the 125 fm. level north is about 8 fm. will produce 11 ton 6 or ore per fm. We samples 30 tens of ero on Thursday last, the 6th last fm. wilding fm.

to intersect these lodes.

COMBLAWN.—The pitwork not being ready before, is because the smiths could not get their work ready quick enough, on account of the shop being so small as not to admit of more than three men to work at a time, which we had day and night; now our pitwork is all fixed, and I hope to kee spenned by Wedneaday or Thursday to begin to work. The shaft is fail of attle, and we have to make it jonger; and if the ground a firm downwards, I capted to get it cleared up to the depth of 20 mis. In four months. It is now time to order the tron for the reds, which will work the lewer mine, and the

of 3 round crown from. We are also a want of a larger simility believes to make the joints with.

CRADDOCK MOOR.—Dunstan's lode in the shaft, 12 fms. under adit, is now 3 ft. wide, of which 9 inches is black and yellow copper ore, gossan and quarts—very kindly branch, such as is rarely seen so shallow in any part of this country; there are spots of ore in the other parts of the lode. It is intended to continue to carry the shaft perpendicularly, and also take away the lode northwards (in which direction it is underlaying at Dunstan's, and also take away the lode northwards (in which direction it is underlaying at Dunstan's lode. West Caradon, 34 to 3 ft. per fms.), so as to sorm a plate from which to drive on the lode. This Dunstan's lode will be likely to fall in with Virian's lode in a few fms. sinking. Vivian's lode, in West Caradon, 65 fms. from Craddock Moor sett, in the 17 fm. level, now produces about 14 tons per fm., and has been productive for the last 50 fms., in some places 5 tons per fm. The adit level on Vivian's, in West Caradon, is not so far towards Craddock Moor in the 17 fathon level, but its now as good as the 17. About 40 to 50 fms. north of craddock Moor in the 17 fathon level, but its now as good as the 17. About 40 to 50 fms. burther Taylor's lode. Gippin's lode, in the 17, is now within about 70 feet of Craddock Moor, and produces about 3 tons per fm., worth about 30. Trou the foregoing, 31 is apparent that the prospects at Craddock Moor are very favourable. The Menedue lode of West Caradon will come into Craddock Moor are very favourable. The Menedue lode of West Caradon will come into Craddock Moor are very favourable. The Menedue lode of West Caradon will come into Craddock Moor are very favourable. The Menedue lode of West Caradon will come into Craddock Moor are very favourable. The Menedue lode of West Caradon will come into Craddock Moor are very favourable. The Menedue lode of West Caradon will come into Craddock Moor and it in making, jout will probably be first sub by driving a

DAREN.—We have holed the level Coed adit into the old works, with goodore for some fathoms before we holed, that will come away at good profit. There is also
excellent ore in the store we holed, that will come away at good profit. There is also
excellent ore in the stores in level Canal asit, and at the mount of level Coed; and we
expect to get the new level into the lock in the course of a month, or to below level Coed,
which will give us a good back of oreground. The wheel is up and working—that is,
revolving, for we have nothing attached to it yet. I am glad to get the invoices of crusher
and rails. You will like to hear of out holing level Coed adit, as we shall soon now be
into the heart of the old mine.

to the heart of the old mine.

DEVON AND COURTENAY.—The lode in the engine-shaft is still proacing some ore, and the sumpmen are working well and progressing favourably, having
mk during the last three weeks 10 ft. The ground in the 50 end is hard and unproactive. The ground in the rise, from the 50 to the 40 fm. level, is more favourable for
sing, and I expect to put it through to the 40 by our next setting day. The next pay

ducting. Some diving the last three weeks 10 ft. Integrant of the last control of the last chief of th

nd Bissoc offers,

EAST WHEAL GEORGE.—The men are sinking the engine-shaft with all costible dispatch, and there is no reason to doubt of its being down to the 12 fms. committed in three weeks from the present time, as they are now sinking 9 ft. per week. he stratum is a blue killas, congenialfor copper; in fact, there are occasional branches f spar, impregnated with bright yellow ere, in sinking through the country, and every dication presents itself of having a good lode, when interesected by the cross-cut. The heel works well, and the other parts of the machinery, floors, &c., will be ready in time.

GONAMENA.—We have nearly 30 tons of ore broken, and expect to sell above that quantity in a few weeks. This was raised in sinking under the 60, where a winze is carrying down to meet the 80 in. level coming forward, which is now poor, not having yet come under the productiveground above. There is a pitch working in the back of the 60, at 7s. in 12. The 60 em cast remains as last reported, producing a 1 ton of ore per fm. The 28 is not yet commisseed. The 80 west has been commenced, and a little ore found.

KESWICK.—At Brandley, the 10 fm. level rise is not quite so good as last reported. The sump in Salt level is about the same as last week; a cross-cut in this level has been made, for the purpose of getting at a bunch of ore which is going down from a sump above. At Thornerhwait, the 17 fm. forelead is looking very promising, and effers a capital prespect, as we are coming into the erry ground from which ore has been got on the surface. The 17 fm. sump, on string, is not looking quite so well; we are driving a cross-cut at this level on the vein. We have ore here which will pay for working, but the best ore is going down, and is expected will meet that going down in the string. The bottom level continues to improve. We have put on two men to clear out a level in the old Brandley Mine, which, on careful examination, offers a very good prospect; if it turns out well, it will be a famous thing.

working, but the best ore is going down, and is expected will meet that going down in the string. The bottom level continues to improve. We have put on two men to clear the string of t

and this has very much improved within the last few days. All the backs over the is fm. level is good tin ground, and, on the whole, I believe we never looked better.

SHEBA (STOKECHEMIAND).—I took an opportunity of visiting this mine last week. The principal lode is 5 feet wide, about i mile west of the Devon Great Consols, and believed by many to be the same lode. The indications are similar to those of the Devon Great Consols. I was much pleased to see rocks of copper ore broken, or, indeed, quarried out, almost at surface. Many experienced miners, from curiosity alone, have visited the spot, and all concur in one opinion.

— June 5.—We have commenced rising in the back of the adit, on the course of the lode, which is 7 feet wide, by four men, which is impregnated throughout with copper, with a solid leader of bright vellow copper on the footwall. We have this week been visited by a gontleman who, after taking a minute survey of the mine, both underground and at surface, stated that the reports he heard, although flattering, did not at all come up with the prespects held out, according to his opinion. He also took some of the copper with him to show to his friends, who, I understand, are inclined to take shares. The mine will shortly be inspected by some experienced and practical agents, so that they may give their opinion on the fiture results of the prosecution of the mine. We taken to relate the tothe surface on the course of the lode, in order to bring down the rods to enable us to sink under the adit, where, from the splendid appearance of the lode and strats it runs through, we may reasonably expect some profitable results. There are many other lodes in the sett not yet explored on, as well as sone cross-courses, which I shall more fully enter into, after finding out their proper bearing, &c.

SNOWDON.—Since the recent inspection by Capt. Verran and Mr. Smith, on behalf of the new company, we have extended our operations very condersibly. At present our maining force is increased to 24, and we are abou

parcels in regular succession.

SOUTH WALES MINES.—The south, or Frongoch lode, in the 12 fm level, east of the cross-cut, is much the same in its general appearance as when last reported, producing a little lead and copper; but not sufficient to set a value on. The doc in the shaft, 100 fathoms east of the old workings, is much improved since my last and has a very promising appearance—being from 3 to 4 ft. wide, and will at this time rigid about 10 wats, of or a per fm.

porried, preducing a little lead and copper; but not summent to be a state of the lode in the shaft, 106 shiftoms cast of the old workings, is much improved since my last and has a very promising appearance—being from 3 to 4 ft. wide, and will at this time yield about 10 cwts. of ore per fm.

SOUTH WHEAL TRELAWNY.—The engine-shaft is in course of sinking below the 80 fathom level by six men, ground favourable—a deep blue killas strata. We are also driving north to the west of the shaft, in the 50 fm. level, on the course of the lode, by six men; the lode is 2 feet wide up half the end, but it is not quite so large in the back, composed of since-span, taryles, killas, fine grained mundle and crystals of copper ore, and spots of lead taken ext in the last wesk, ground favourable. Since last report the lode has improved in character, e verything is in a regular course of working.

TAMAR SILVER-LEAD.—In the 205 and the lode is 18 ft. wide, chiefly composed of capel, with strings of ore. In the 190 end the lode is 2 ft. wide, composed of quarts and ore—good awing work. In the 175 end no lode has been taken down since last report. In the 160 end the lode is 3 ft. wide, internixed with ore throughout. In the 135 end the lode is 2 ft. wide, composed of mandic, capel, and ore—saving work. In the 180 end the lode is 6 in. wide, composed of can, with silver-lead ore. I am glad to say we are making good progress in taking out the ground for the engine in the 116 fm. level, and hope it will be completed in a fortnight from this time. In the north mine, the engine-shaft is down 9 fm. 3 ft. 5 in. below the 80 fm. level a nit the and driving north, in this level, the lode is 1 ft. wide, composed of peach, prisan, and ore—good saving work. We sampled, on Saturday, the last mat, compited 80 tons of rich silver-lead ores—samples of which have been sont to the different ameliers sa usual—control of the first of the

ing wark. We sampled on Saturday, the last inst., computed 30 tons of rich silver-lead ores—samples of which have been sent to the different ameliers as usual—decision of the computed as 1 tons of the computed as 1 tons of rich discovered as 1 tons of the computed as 1 tons of the computed as 1 tons of the computed as 2 ft. wide, worth 62 per fm. for copper. In the 90 fm. level west the bede is 3 ft. wide, worth 83 per fm. for copper. In the 90 fm. level west the bede is 3 ft. wide, worth 84 per fm. for copper. In the 90 fm. level west the bede is 1 ft. wide, with spets of ere. At North Thereoft, in the 110, the ensetre end may are capaged in cutting ground for penthouse, &c.; in the west end, same level, the lode is 6 ft. wide, worth 402 per fm. for copper. In the 100, the west of engine-shaft, the lode is 3 ft. wide, worth 104, per fm. for copper. In the 90 fm. level, east of Willoughby's shaft, the lode is 3 ft. wide, worth 104, per fm. for tin and copper; in the 90, west of engine-shaft, the lode is 5 ft. wide, worth 202 per fm. for copper. In the 90 fm. level, east of Willoughby's shaft, the lode is 5 ft. wide, worth 202 per fm. for copper in the 90, west of engine-shaft, the lode is 5 ft. wide, worth 202 per fm. for copper; in the 90, west of engine-shaft, the lode is 5 ft. wide, worth 202 per fm. for copper; in the 90 ones, of the continuous cont

wheel works well, and the other parts it tell of having a good lode, when intersected by the cross-cut. The wheel works well, and the other parts it the mathiery, floors, &c., will be ready in time.

GONAMENA.—We have nearly 30 tons of ore broken, and expect to sell above that quantity in a few weeks. This was raised in sinking under the 60, where a winze is carrying down to meet the 80 m. level coming forward, which is now poor, not having yet come under the productive ground above. There is a pitch working in the back of the 60, at 7s. in 1t. The 60 enc east remains as last reported, producing a is ton of ore per fm. The 28 is not yet communed. The 80 west has been commenced, and a little core found.

HEIGNSTON DOWN CONSUES.—The lode in the 35 fm. level, east of the cross-cut, maintains its size, and it carrying a solid leader of experior quality ore, to it is a seed as the seed of the seed as 2 ft. wide, producing some good saving work for copper ore. The cross-cut south in this level is 2 ft. wide, producing some good saving work for copper ore. The cross-cut south in this level is 2 ft. wide, producing some good saving work for copper ore. The ground in the 132 fm, level, west of the diagonal shaft, which is I telting down a pretty dead of water, so much so, as to enable us to set the pitch over it, at 5s. in 1t. for copper. The ground in the 132 fm, level, west of the diagonal shaft, which is I telting down a pretty dead of water, so much so, as to enable us to set the pitch over it, at 5s. in 1t. for copper. The ground in the 132 fm, level, west of the diagonal shaft, which is I telting down a pretty dead of water, so much so, as to enable us to set the pitch over it, at 5s. in 1t. for copper. The ground in the 132 fm, level, west of the diagonal shaft, which is I telting down a pretty dead of water, so much so as to enable us to set the pitch over it, at 5s. in 1t. for copper. The ground in the 132 fm, level, west of the stones are nearly 1 cwt. each. This lode is about 2 feet wide, taking its carrying

and enumerical the pitwork in Kelly's shaft to our engine, and it enuwers well.

TRELEIGH CONSOLS.—At Christoe's lode, in the 100 fm. lavel, west of Garsan's siant, the lode is 2 feet, wide, with stones of ore. In the 90, west of ditto, the lode is 24 ft. wide, worth 20.7 per fm. In the winze sinking below the 90 the lode is 2 ft. wide, worth 16.7 per fm. The 70, west of Garden's, is suspended. The men are rising against the winze in the bettom of the 90 fm. level. In the rise above the 70 fm. level the lode is 4 ft. wide, worth 141, per fm. In the winze below the 60 fm. level the lode is 6. wide, westh 31 per fm. At Parent lode, the 52 cross-est, north of engine-shaft, below the 40 fathom level, is driving north, to cut the biddle lode; in the rise above the 40 fm. level the lode is 18 in. wide, with good stones of ore. In the winze below the 30 fm. level the same pare of men have this ground to hole, at the middle lode, the stir, east of Nichplan's lode, is 15 in. wide, with stones of ore.

WINST FSCAME LIFE.—The lode in the winze, below the old workings,

WEST ESGAIR LLEE.—The lode in the winze, below the old workings, is 3 fise, wide, has a promising appearance, and is producing some good saving work; but in order to give the western ground anything like a fair or proper trial, a deep adit level should be at once commenced and extended north-west on the course of the causic oldes, which will, at the distance of 60 or 70 fathoms, form a junction with, and cross, the same lode wa are now sinking on, at the depth of about 30 first. It his would be, as the old adage says. "Milling two birds with one stone," by proving the caunter lode west, and cross-cut the old north lode, from which a large quantity of ore must have been formerly ratised near the surface.

accase-out the old north tode, from which a large quantity of ore must have been formerly raised near the surface.

WEST WHEAL JEWEL,—In the 85 fm. level, west of Williams's cross-course, on Wheal Jewel lode, the lode is producing stones of ora—drove last month 2 fms. 2 ff. 6 in. At Treweek's winze, in the bottom of the 70 fm. level, west of ditio, on the same lode, the lode is worth 42 fms. 2 ff. 6 in. At Treweek's winze, in the bottom of the 70 fm. level, west of ditio, on the same lode, the lode is worth 42 fms. 1 ff. 6 in. In the 37 fm. level, west of Williams's cross-course, on the last month 2 fms. 1 ff. 6 in. In the 37 fm. level, west of Williams's cross-course, on the same lode, the lode is unproductive; it is suspended to sink a winze in the bottom of the level—drove last month 1 fm. The rise in the beat of the 47 fm. level, on Williams's cross-course, rose last month 1 fm. 3 ff. 6 in. The winze in the bottom of the deep adit, on Williams's cross-course, susk last month 2 fms. 1 ff. 6 in. The 3 fms. ecc., end, not the fms. 3 ff. 6 in. The winze in the bottom of the deep adit, on Williams's cross-course, susk last month 2 fms. 0 ff. 6 in. In the shallow adit level, west of Tregoning's shaft, on Tolearon in lode, the lode is unproductive—drove last month 5 ff. 6 in. In the shallow adit level, west of Treyor's winze, on the same lode, the lode is unproductive—drove last month 5 ff. 6 in. In the shaft, on the same lode, the lode is unproductive—drove last month 1 fm. 6 in. In the stopes in the bottom of this level, east of Tregoning's shaft, on the same lode, are worth 25. per fm. In the stopes in the bottom of this level, west of Tregoning's winze, on the same lode, the lode is worth 26. per fm. These stopes are working on tribute.

WHEAL BENNY.—You are aware an adit has been taken from the banks of the Tamar, and extended into the hill from 40 to 50 fms., when a large cross-course was met with. Having passed through it, and extended a level north about 5 fathoms, a lode was there intersected, called the

cross-cut north, in the bottom of Davey's, and which will enable us to go 20 fathoms deeper without water charge.

WHEAL GOLDEN.—At the engine-shaft, in the 70 fm. level, north of the cross-cut, the ground is good—lode I ft. wide, producing 16 cwts. of ore per fm., with every appearance of an improvement shortly, and the lode is very good going down in the bottom of the end; in the 70 fm. level, south west of cross-cut, the ground is improved—lode 10 in wide, producing 17 cwts. of ore per fm., and a very kindly lode. At Thomas's shaft, shaking under the 60 fm. level, the ground is good—lode 2 ft. wide, producing 16 cwts. of ore per fm.; in Rickies's wize, sinking under the 60 fm. level north, the ground is good—lode 20 in. wide, producing 16 cwts. of ore per fm.; in Rickies's wize, sinking under the 60 fm. level north, the ground is good—lode 18 in. wide, producing 18 cwts. of ore per fm. At Maxwell's shaft, in the 43 fm. level south, the ground is comething harder—lode small at present, producing 3 cwts. of ore per fm. The tributo pitches are looking just as they have been for the last month past. We set, on Saturday last, 10 tribute pitches, varying from 41. 10s. to 72, per ton, and four new kutwork hargains. We shall send out public samples for 36 tons of ore for sale to-morrow.

WHEAL HARRIET.—I have been underground in this mine to-day, and am pleased to find that the look has increased in width to rather more than a foot, and is looking quite as well as I expected to find it; it is still widening; and t fink, from present appearances, at the end of 2 fms. driving, it will be a lode worth any person locking at, They have a small pite fore men to clear the adit cast upon the old lode, to lay open the shaft, &c. Our horse whims are erected, chains and kibbles, and everything in complete working order.

WHEAL RUSSELL.—North Lode: Hitchin's engine-shaft under the 26 fm.

when the same, each off norse winns are vereign, chains and abouts, and everything in complete working order.

WHEAL RUSSELL.—North Lode: Hitchin's engine-shaft under the 26 fm-level still remains suspended, and we are continuing the cross-cut south, at this level-through the lode, which, at this place, is of enormous size. The end is hard, and the lode composed of capel, abundance of munife, with spots of copper ore; I expect an improvement here as we get towards the south part of the lode. South Lode: We have again commenced sinking the engine-shaft under the 26 fm. level, by sine men, for 801, to be finished by the end of 341, or forfeit 51. In the 26 fm. level, west of engine-shaft, there is a good croy lode towards the bottom part of the end, for full 2 ft. wide; and, from present appearances, we expect a speedy improvement; this end is being driven by three men and three boys, at 19s, per fau., and 2s. in 11. for the ore. In a winze sinking below the 26 fm. level, the lode is 21 feet wide, and producing 3 to 4 tons of good quality ore per fm.; this winze is being annik by six men, at 90s, per fm., and 2s. in 11. for the ore. We hope to have this winze down to the 37 fathors loved in about three months. In the pitch immediately over the above winze, the lode is 30 inches wide, producing 2 tons of as per fm.; this pitch is lot to two men and two boys, at 6s. 8d. in 11.

WHEAL SARAH.—The best plan to work this mine, as the north part is

easperfm.; this pitch is let to two men and two boys, at 6s. 8d. in 1f.

WHEAL SARAH.—The best plan to work this mine, as the north part is very poor, and the shoots of lead are all dipping south, is to drive the 30 fm. level south, and there is a winze sunk about 9 ft. in the bottom of the 20 fm. level south; by sinking this winze we shall be proving the ground, and increasing the ventilation, and then drive on the 20 fm. level south, and, as we cannot sink the oid engine-shaft any deeper, go south, and sink a new shaft, as our mine appears to be making south. We are taking up some very good work from the 30 fm. level south, and it is my opinion, if we were 10 or 20 fms. deeper, that we should have a good mine, for this level has been driven 17 fms. south of the shaft, and had lead all through. The stopes in the back of the 20 fm. level south are turning out very good gossan, and by Saturday next we shall have 20 tons all ready for market.

WHEAL TRELAWNY .- At Phillips's shaft, in the 82 end north the lode WHEAL TRELAWNY.—At Phillips's shaft, in the 82 and north the lode is 3 ft. wide, worth 42. per fm. In the 72 south the lode is 4 ft. wide, worth 32. per fm. In the winze sinking under this level, south of the shaft, the lode is 1 ft. wide, worth 72. per fm. In the 62, north of the shaft, the lode is 3 ft. wide, worth 72. per fm. In the 62 north the lode is 4 ft. wide, worth 82. per fm. At Tre-lawny's shaft, the 92 cross-cut is driven 2 fms. towards the lode, and ground favourable. In the 82 north the lode is 4 ft. wide, worth 82, per fm. At the winze sinking under this level is now down 6 fms. At the north mine, in the 63, north of Treiana launders, the lode is 1 ft. wide, worth 52, per fm. In the winze sinking under this level is now down 6 fms. At the north mine, in the 63, north of Treiana launders, the lode is 1 ft. wide, worth 52, per fm. In the winze sinking in the bottom of the 53, north of Treiana, the lode is 2 ft. wide, worth 72, per fm; two have commenced rising in the back of this level, to communicate with the 50, nouth of Smith's In the 40, north of disto, the lode is 6 in. wide, interspersed throughout with lead. In the winze sinking under the 30 fm. level the lode is as last reported. The stopes throughout the mine are as usual.

WHEAL VINCENT.—The lode in the east and is much better than it was

SERVICE SERVICE

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codites, with a cross-lode, which underleys towards the shaft, and at the depth of from 25 to 26 line, we expect to have these two lodes in the shaft, and set the depth of from my opinion cannot fail to do well, particularly so as the Mercedites lode now is continually producing eliver. In the chifton, sinking in a direction towards the new shaft, we have a large lode, which continues to give plomas, and nothing is needed, as I have before said, but to made with the intersection, to have a bunch of silver. In the other parts of the mine we are setting on as that. Is we can, but not so fast as we would, for want of ventilation; this will, however, be removed when the new shaft is holed.

CARMEN ALTO.—Here we have commenced sinking a chifton in a southerly direction in the bettom of the 23 fm. level, where the lode is large, but at present poor; our object here is to gain depth, and lovel, where the lode is large, but at present poor; our object here is to gain depth, and lovel, where the lode is large, but at present poor; our object here is to gain depth, and lovel, and to the well of the sinking a chiffon in a southerly direction one to the west, from this level, to cut two large lodes, each of which is underlaying to wards the Garmen Alto lode, and are but a large lode, see have well enterlay in the lodes we have great expectation.

Sanya Awa.—Here our operations are confined to the driving of the 5 fm. level, and the sinking of two chiffons, in each of which we have a beautiful lode, producing a little silver, but not quite enough to save. Nothing is wanted here but a cross branch to make this as plendid lodic, which, we are daily expecting to meet with.

Colorada.—This mine bids fair to make one of the first in the mineral. The lode in the 20 fm. level and the 20 fm. level and the sold is large and of a promising character; our object here is to continue sinking, not only to gain depth, but to come in cantact with several cross branches, which we know to be before us. On the cast and west lode we are still

where the lode is large and or a promising character; our object new is accommunication, and ventilate the mine here; the vein is also large, with a beautiful cleanned of ground.

Gold Mines—Descrandors do Order—In sinking in the bottom we have a fine looking lode, I ft. wide, composed of gessan and quartz, with a little gold; we are also driving north, where the lode is 6 fin. wide, of similar character to the above. We are continually on the look out for a rich vein, and I think it cannot be long before we have it. The whole of this lode would pay well, if we had the means of returning it on the spot.

Segunda Esperanza.—During the past month we have been opening ground on the cross lode, of which I advised you in my last, and although it has beautiful appearance, it produces but little gold, and consequently will not pay to be carried to the city. On the silver lode we have commenced sinking is an opposite direction, to see what; it will make in depth—this lode is large, and in a fine-strata or channel of ground.

Santo Domingo.—During the month we have been working on the Chacabuse lode, and since we began it has improved, not only in size, but also in its character, and is now producing some good specimens of gold, and I sincerely think before long we shall have to send you some good gold ore from hers. From the above remarks on the different mines, I think you will agree with me in saying that the company's property in this infant mineral—for such it is, compared with others at present very rich—is gradually improving, and it requires only time and perseverance to bring out its riches.

LINARES MINES.—The following has been received from Mr. H. Thomas:

Lisaws, May 25.—The amexed are all the bargains set for the next month, with those still remaining t—wilesings shift, sinking under the I7 fathom level, and now down 18 varas, is set to six men, at 300 reals per varae. Shaw's shaft, sinking under the 17 fathom level, and now down 18 fathom level, at 2 reals per arroba, continued from last month; one ditto

To next account ...... Arrebas 631 2

### ST. JOHN DEL REY MINING COMPANY.

49-March 22,177 oitavas	1849-September 2:		
April 22,672 ,,	October 24		
May 22,383 ,	November 2		
June 21,985 at	December 23		
July 22,339 ,.	1850-January 21		
August 23,047 "	February 21	,364 "	
Total oftavas	270,488.	Continue to March 11 Ac.	

The produce of the twelve months ending February, 1849, was 230,136 citavas. net profit on the working of the minos for the year ending 28th February last has 133,1364. 17s. The number of tons raised in the year ending the 31st December last, 67,335. The number of tons raised in 1848, was 61,672. The extent of stoping gro laid open on the 31st December last, was 690.00 fathoms—viz.: in the

Bahu Mine	
East Quebra Panella	
West Quebra Panella	27.50
Gamba Mine	75.00
Cachoeira Mine	251-11
POLICE TO SERVICE STORES AND A SERVICE TO A SERVICE CONTROL CONTROL	of the state of th
Total	690-05 square fms.

On the 31st December, 1848, it was 506.39 square fathoms

is a it, wide, worth the perfo. Is the 72 south the lode is 2 ft. wide, worth 7. To in a the wises a single gameler this level, so construct the lode is 2 ft. wide, worth 7. To in a 1 ft. to level is 1 ft. wide, worth 7. To in a 1 ft. to level is 1 ft. wide, worth 7. To in a 1 ft. to 1 ft. wide is 1 ft. wide, worth 7. To in a 1 ft. wide is 1 ft. wide, worth 8. To ft. in the 52 south ft to 16 is 1 ft. wide, worth 8. To ft. in 1 ft. wide worth 8. To ft. in 1 ft. wide, wide, worth 8. To ft. in 1 ft. wide, worth 8. To ft. in 1 ft. wide, wide, with 9. To ft. wide, wide, with 9. To ft. in 1 ft. wide, wide, with 9. To ft. wide, worth 8. To ft. wide, worth 9. To ft. wide, wor

complain of the English companies treating their slaves too well. To sum up, Mr. Walker considers them well paid, well fad, and their tasks allotted fatrly in proportion to
their physical abilities.

It will be seen that Dr. Walker's investigation, so far as it had gone, was satisfactorily
establishing the truth of the statements previously received by the directors, of the careful treatment of the aggrees; and, further, that the example set by this company is that
respect was producing a beneficial influence on the treatment of negroes generally by

the Brazilians.

The directors would be wanting in justice to Mr. Keegh if they did not express their unqualified satisfaction with the able, energetic, and upright manner in which he is discharging the ardiouse duties of the superintendence of this large establishment. Nothing can exceed his faithful and devoted attention to the interests committed to his charge. The directors have, in the course of the past year, presented with him a gratuity of £500, as a testimony of their sense of his services.

A full statement of all the details of the company's proceedings during the past year will be found in the Appendix, containing a report from all the heads of departments at Morro Velho.

Morro Velho.

The following is the financial position of the company:—Balance at bankers, 87181.8s.; at Mesars. Overend, Gurney, and Co., at interest, 10.0481.19s.; gold by express, 15,5991.19s. 9d.—29,3611.17s. 9d.—To pay drafts running, 90201.: dividend now declared, 16,5001.; 10 per cent. to reserve fund, 16501. = 27,1701.—leaving a balance in England in favour of company, 21911.17s. 9d. In the Brazils the cash in hand was 98141.15s. 4d., to meet payments owing of 30641.17s. 8d., and the reserve fund amounts to 11,5001.

Statement of Registra and Expenditure, from the 1st May, 1849, to 3141. May, 1849.

Statement of Recipts and Expenditure, from the 31st May, 1849, to 31st May, 1850.

	I askeds out more improvement and success which are not belown	#10	T	
	Brought forward from last account—   Balance at the bankers.	11	5 10 2 11	A 11 M 11 M
	Ditto on account of Mr. Hausberger 227		0	ł
N	Total£106,219	1	4	
	EXPENDITURE.			
	Paid acceptances outstanding, as per last balance-sheet	0	0	
1	Drafts of agents in Brazil 40,528	3	2	
	Salaries and wages in England on account of parties in Brazil		6	
П	Stores sent to Brazil	19	2	
	Insurances	15	6	
	Investment in Exchequer Bills 1,557		8	
4	Fourteenth half-yearly dividend, due 11th June, 1849 13,750	0	0	
d	Fifteenth half-yearly dividend, due 1st Dec., 1849	0	0	
d	Hire of negroes from the Brazilian Company 2,497	6	6	
ú	Charges on gold 34		11	
d	Income tax 626		3	
4	Forfeited shares	16	8	
1	Overend, Gurney, and Co., deposited with them		0	
1	Salaries of directors, of secretary, clerks, rent, office expenses, stationery,	0	0	
ı	postages, advertisements, and incidental expenses 2,186	19		
1	Balance at the bankers			
1	Cash in the office	10	7	

of square fathoms stoped to have been 609 05, which, as compared with last year, is an increase of 183-66 fathoms, arising chiefly from the excavations having been gradually widened, and from opening out in the north branch in the Bahu Mine.

The daily average number of borers has been 217; the total number of holes blasted, 61,599; and the total number of waggons of ore trammed to the spalling floor, 67,688. The latter yielded, according to the reduction accounts, 67,6366 tons, equal to 25 tons per borer per month.

Comparing the duty per borer per month in 1848 and 1849, with 1843-4-5-6 and 1847, it would appear to persons not practically acquainted with the quarrying of the lode that the borers had performed a greater amount of work, but such is not the fact. The increase in the number of tons per borer has arisen from these causes:—1. From 1848 to 1847 inclusive, the mine was worked on the narrow gauge system, but in 1848 the wide gauge system was resurted, and it is almost superfluous to remark, that borers can quarry more ore, with the same amount of labour, from a hard compact rock, in a wide excavation, than in a narrow one. Pravious to 1843 the mine was wrought on the wide gauge, and in 1842 the borers averaged 30 tons per man per month.—2. The quantities of ore raised have been taken from the reduction accounts, and these accounts, it has been ascertained, were most erroneous, when we considered them most correct—sometimes too much and at other times too little ore having been called a ton—consequently, they cannot be of any service as data for comparisons and calculations. The task of the borers is the same now, as regards the size of the holes, the depth of the holes, the pumper of the holes, in a word, in every respect as in 1845, and it has never been altered. In 1845 each borer averaged per month, 24-66 holes; in 1846 ditto, 23-70 ditto, 18-70 ditto, 18-70

accounts for the awful mortality among the blacks in the summer of 1849. He saya—

But to this almost general state of prosperity, there existed, for a considerable time, one exception—one dark cloud, which threw a gloom over an horizon otherwise clear and brilliant. I allude to the unusual amount of sickness and mortality which affiled the establishment from the latter and of 1848 to July 1849. In vain did I, month after month, institute the most anxious inquiries, to endeavour to trace the cause of so melancholy a state of things. At length my suspicious were excited in a particular quarter, and, on investigation, proved but too well-founded. It appeared that the blacks had been permitted to wear each morning the wet clothes which they had thrown off the previous day on emerging from the mines, notwithstanding the strictest orders had been given to take care that these clothes were dried overy day. Hence pneumonia, followed rapidly by death. So astounding a breach of duty was visited as it deserved. The most effective precautions were immediately adopted to prevent the possibility of a repetition of such misconduct; and I am happy to add, that with the disappearance of the cause of the ovil, have also disappeared all the attendant excess of sickness and mortality. This mortality, which, up to the end of July, had averaged 9 per cent. per annum. Confidence is being rapidly re-established; a good num. Lev of littled blacks have been already added to our force—more are promised in the course of the current month. Nor is the moral condition of the blacks inferior. Drunkenness, the parent of so many discases, of so many elegancy to the current month. Nor is the moral condition of the blacks inferior. Drunkenness, the parent of so many discases, of so many discases, of so many elegancy to the sum of the province of the strength and capabilities of the respective parties,

would be difficult, in England, or in any other part or me goos, to much a coary of the blacks of Morro Velho.

Mr. Bosworff said, he had perused the report, a copy of which he held in his hand, and which had just been read, with the deepest care and consideration; he had watched the progress of the company from the commencement, and he must say, that at no annual meeting had there been circulated among the shareholders a report so satisfactory. It was throughout most deeply interesting, and abounded with facts important to the welfare of the company; It was a most cheering circumstance that, notwithstanding the great outlay which had been made during the year for extensive and necessary works and machinery, the directors were enabled to give them a dividend of 30s. per share, and he had no doubt, as the expenses would now be less, that the amount of dividend would still be increased. An old friend of his (a gentleman well acquainted with mining, and of some influence in the City) 12 years ago told him he believed the Morro Velho estate to be the most valuable in the Brazils—that it only required the directors to bring to bear on its management partience, perseverance, and integrity, and it would become a profitable and lasting mine. Mr. Bosworth continued to say, that there were many parts of the report highly interesting, particularly that which related to the negroes, and he could see no reason why they should not believe every word. He believed the superintendent deserved the thanks of the meeting, and he was most happy that the directors had made him the compliment they had, by voting him 500?. He did not know whether it was owing to Mr. Reogh's perseverance, but since the time that he had taken the management at home and abroad, he considered that, from his experience as a miner, having been a director of this company, and having had the management of other mines in Brazil, he was warranted in making one observerion in reference to what had been said by Mr. Bosworth, as to the increase of dividends since

great and praiseworthy they may be—as no doubt the exertions of Mr. Keogh had been—cannot influence the returns of the mme, which must depend on the extent of ground opened and worked, and the improved or continued good condition of the lode. In the present instance the increased dividends were due to the greater extent of ground opened, and the increased force applied. If the directors deserve praise for one thing more than another, it is for the perseverance with which they continued to work the mine, under very disheartening circumstances, during many years. Without this explanation, the observations of Mr. Bosworth might appear invidious, with reference to the former management of the mine.

Mr. Boswortra observed he had not the remotest idea of such intention.

The report and accounts were then received and adopted.

Mr. Jaco acknowledged the zeal, integrity, and perseverance of Mr. Keogh for the interests of the company, and consented most heartily to the appropriation of 500£; but he thought in giving such a gratuity the shareholders ought to be called on for their acquescence. He also inquired in whose names the 11,500£ reserved fund stood, as it was usual to have trustees? He also complained that one of the officers in that establi-hment had been in the habit of going among shareholders, and advising them to sell their shares, on presumed information which he had received from Brazil, which would lower the price; a friend of his had lost 600£ by selling under his advice. He moved that the directors should not give any gratuity in any one year above 50£, without first obtaining the consent of the shareholders.

This resolution not being seconded, of course was not put from the chair; and, in explanation, the Chairman said, the reserve fund was in the names of the directors, but there could be no objection to trustees, if the shareholders so wished it, and would propose a resolution on the subject. With respect to one of their officers having made use of his position to influence the share market, he was

CARADON VALE MINING COMPANY.

CARADON VALE MINING COMPANY.

At a general meeting of adventurers held at the Half-Moon Hotel, Exeter, on Monday last, the 3d inst., the accounts were examined and passed, showing —Deposit received on shares, 2501. by labour cost for eight months, ended lat inst., 1601. 11s. 9d.; travelling and other expenses, postage, and stationary, &c., 361. 8s. 5d.—leaving balance in hand, 521. 19s. 10d. Licut.-Col. Thompson, and Messrs. Harvie, Titherley, Suter, Bond, Higgs, Milton, Traer, Richards, Vatcher, Channing, and Whitchurch, were appointed a committee to watch the progress of the works at the mine. Capt. John Seymour was appointed agent, at a salary of 3l. 8s. per month. Mr. John Stephens was appointed agent, at a salary of 3l. 8s. per month. Mr. John Stephens was appointed secretary, at a salary of 3l. 8s. per month. Mr. John Stephens was appointed secretary, at a salary of 3l. 3d. per month. Mr. John Stephens was appointed secretary, at a salary of 3l. 3d. per month. Mr. John Stephens was appointed secretary, at a salary of 3l. 3d. per month. Mr. John Stephens was appointed secretary, at a salary of 3l. 3d. per month. Mr. John Stephens was appointed secretary, at a salary of 3l. 3d. per month. Mr. John Stephens was appointed secretary, at a salary of 3l. 3d. per month. Mr. John Stephens was appointed secretary, at a salary of 3l. 3d. per month. Mr. John Stephens was appointed secretary, at a salary of 3l. 3d. per month. Mr. John Stephens was appointed by rosecute the works with all vigour. A call of 5s. per share was made payable on the 18th inst., and another payable on 1st August next, punctual payment to be strictly enforced, as the machinery is to be completed and paid for within six weeks. Reports from Capts. Dunstan, Seymour, and Spargo were read, the substance of which was as follows:—A cross-cut adit was driven northward from its mouth 50 fms., where a promising lode was cut, averaging from 1 to 3 feet wide, composed of gossan, spar, peach, iron pyrites, with stains of carbonate of copper, in a beautiful

### EAST TAMAR CONSOLS MINING COMPANY.

EAST TAMAR CONSOLS MINING COMPANY.

The usual two-monthly meeting of shareholders was held at the offices, on Tuesday, the 4th inst. John Brown, Esq., in the chair.

The minutes of the last meeting were read and confirmed, and the statement of Secounts presented, showing a balance in favour of mine, 6691. 18s. 1d.; also an account of payments and receipts on to the 6th August next, showing a balance of payments over receipts of 2011. 9s. 4d. The account of assets and liabilities gave a balance in favour of the mine of 1884. 10s. 8d. Mr. William West's estimate of the valuation of Whitsome engine was laid before the meeting, being 6861—one-third part of which (2661. 17s. 6d.) is due by the South Tamar Mine, was duly sanctioned.—The Secretara stated, that the tender for 70 tons of silver-lead ore, at 141. 16s. per ton, had been accepted.

The following report, from Mr. J. Wolferstan (the manager), was read:—

June 3.—The shaft is sunk 11 fms. below the 80 fm. level; it is also cased and divided down to this depth, and the 91 fm. level commenced, by driving north and sonth on the course of the lode; in both ends the lodes are 4ft. white, composed of horn-spar and can, with a little lead. In the 80 fm. level south the lode is 7 feet wide, and worth from 4 to 5 cwis. of ore per fm.; in the pitch in the back of this level the lode is worth 6 cwts. of ore per fm.; in the pitch in the back of this level the lode is worth 6 cwts. of ore per fm.; in the pitch in the back of this level the lode is worth 6 cwts. of a proved to be productive; in the north end, at this level, the lode is small, and poor at present, the same as it was in the 66 fm. level, inmediately over the present end; the ground, however, is changing, and no doubt the lode will open out again in the course of this month's driving. In the 66 fm. level, annealisely over the present end; the ground, however, is changing, and no doubt the lode will open out again in the course of the lode is a field with the course of the lode is a field with the course of th

# ESGAIR LLEE MINING COMPANY.

ESGAIR LIEE MINING COMPANY.

A general meeting of shareholders was held at the offices, George-yard, Lombard-street, on Wednesday, the 5th inst.

CHARLES CHIPPENDALE, Esq., in the chair.

The statement of accounts showed a balance of 2722. 7s. against the mine, to discharge which and other liabilities a call of 1L per share was made. The prospects are exceedingly good, and some important discoveries have been recently made.—The following report, from Captain Michael Barbery, who was present at the meeting, was read:—

June 3-11 percentage with year recently made a publication of the company of the c

presented to you a few pieces of the first quality grossan from the mouth of the shallow addi, east on the caunter lode; and as the 19 fm. level has now passed under this place, and 7 fms. beyond, in not only a promising but productive lode, it becomes quite necessary to have a communication from the shallow add to the 12 fm. level, to facilitate the stephig in the back of the same; and we have commenced sinking a winze in the bottom of the shallow add; where we first found the rich goissan above described, and only 6 ft. from the surface: the lode is looking more than usually promising, with a leader of lead on the south wall for about 6 in. wide (a specimen of which I also beç to present), at present yielding 1 ton of ore per fathom. I beg again to repeat, I have no hesitation in saying, that I entertain not the slightest misgiving as to the ultimate success of this concern, sided by a little more of proper trial and development.

The quantity of ore we have at surface is, I think, about 45 tms, and as soon as Owen's wince is communicated to the deep adit (which will occupy about two months), I think, from present prospects and machinery, the quantity we are likely to raise and return will be about 30 tons per month. At this period I think we ought to resume sinking the engine-shaft, now down 6 fms. 4ft, 6 in. below the deep adit. Also to drive the deep adit east of Morgan's winze; ditto the deep adit was of the function. Also the 12 fm. level east from surface; these, with 34 men stoping, including dressing, &c., will swell our cost to about 270, per month. We are now erecting a new 40-fect water-wheel, with crushing-mill attached, capable of both draining the mine and crushing upwards of 100 tons of ore per month; and, as far as its erection has proceeded, is going together remarkably well, and will, I think, when finished, be equal in power to any machinery in Wale; but it will require the tumost exertion on our part to complete its crection, laying out dressing-floors, fixing jigging hutches, buddles, &c.

### GENERAL MINING COMPANY FOR IRELAND.

GENERAL MINING COMPANY FOR IRELAND.

The half-yearly general meeting of proprietors was held on Monday, the 3d inst., at their Board-room, Burgh-quay, Dublin.

Sir James Murray (chairman of the company) in the chair.

The Secretarry read the report of the directors, which, after detailing the progress and prospects of the several mines, showed the affairs of the company to be in a highly favourable and flourishing condition, and concluded by referring the shareholders to the balance-sheet of the half-year's accounts, by which they were enabled to declare a second dividend of 5 per cent, for the present year, payable on the 1st of July next. The reading of the report gave general satisfaction. After some matters of routine had been concluded, the affairs of the company generally were discussed, in a conversational manner; during which some highly-interesting statistics connected with the operations of the company transpired, from amongst which we readily meer the following, as tending to show what an amount of good may be done by giving employment to the people. At the present time the company have in their employment no fewer than 525 persons; and, of course, involving with their families the maintenance of a large number of human beings. These people have been kept in constant work during the long and trying period of three years of successive famine; and they have been fed by the company distributing to them, at cost price, the enormous quantity of 38 tons of meal per month. Thus dispensing the blossing of "daily bread" in the only way in which manikind can nobly receive it—in return for "daily abour;" and it is a fact, most highly creditable to this large community of 90° and industrious people, that since the company have commenced their workings, now upwards of four years, not a single act of violence, aggression, or disturbance of any kind has taken place in the extensive district in which the mines are situated.

The company have recently concluded an arrangement with the Right Hon. Lord Dunally, which p

### HENNOCK MINING COMPANY.

The usual two-monthly meeting of adventurers was held at the offices, Winchester-buildings, on Tuesday, the 4th inst.

James Foisyth, Esq., in the chair.

The reports of Capt. William Lean, of Holmbush, who had been authorised to inspect the mine, and the agent of the mine, Capt. James, were laid before the meeting. The two reports not being in unison with each other, it was proposed, and unanimously resolved, that Mr. Evan Hopkins, C.E., and Mr. A. Murray, jun., be requested to inspect the mine, and report their views at the earliest possible period. The meeting was adjourned for a month, when the reports, it is presumed, will be ready.—A call of 5s. per share was made.

## PENNANT AND CRAIGWEN MINING COMPANY.

PENNANT AND CRAIGWEN MINING COMPANY.

At the quarterly general meeting of shareholders, held at the offices of the company, Threadneedle-street, City, on Wednesday, the 5th inst.,

Capt. Thomas Roses, in the chair,

The circular convening the meeting having been read, the purser laid before the sharcholders the following divestors report:—

The directors have to report that in pursuages with the resolution of the last general meeting, all shares on which there were arrays with the resolution of the last general meeting, all shares on which there were arrays or calls have been forfeited, and the number is consequently reduced to 6301, which is an increase in benefit of 19 per cent. to the existing holders, in respect of dividends is an increase in benefit of 19 per cent. to the existing holders, in respect of dividends and their divisions of profits which may be resulter occur. A list of the present shareholders been printed, and a copy forwardes to every proprietor. The only source of regret which can printed, and a copy forwardes to every proprietor. The only source of regret which can printed, and a copy forwardes to every proprietor. The only source of regret which can printed, and a copy forwardes to every proprietor. The only source of regret which can be a continued to the fact that much delay occurred in the disposal of debenfurers have operations at some lines, but every exertion has since been made to push the works forward, and they are now assuming a very encouraging appearance. Mr. Hugh-Jones, states in his various reports, which are on the table, that considerable progress is making with both the western and eastern stopes. The lode in the former is from 12 to 15 inches wide, "which will produce," he says, "I remos 80 to 90 per cent. of silver-lead ore," The eastern stope has also much improved in driving east. More ground, from the winze, is here being opened to put more miners on, and Mr. Hugh-Jones, under date of May 23, says, "I respect before the middle of next month that his stope will be as

the expiration of the time allotted.

From the statement of accounts from April 1, 1848, it appeared the entire receipts had been—Loan from bankers, 800l.; calls, 5535l. 14s.; sundries, 17l. 7s. 6d.; advances by directors, 205l.; fifteen debentures of 25l. each (375l.)=6933l. 1s. 6d.; the entire cost amounting to 6904l. 0s. 8d., or a deficit of 15l. 19s. 2d. The statement of assets and liabilities showing a deficiency of 1150l. 10s. 10d., it was resolved that the report and accounts be received and entered in the cost-book. That a call of 10s. per share be made payable on or before Saturday, the 22d inst. That G. P. Pocock, Esq., be appointed an auditor, in the room of Mr. C. Smith, resigned. The meeting then separated.

# SOUTH TAMAR MINING COMPANY.

SOUTH TAMAR MINING COMPANY.

The bi-monthly meeting of adventurers was held at the offices, Treadneedlestreet, on Tuesday, the 4th instant.

H. J. Blanksley, Eaq., in the chair.

The minutes of the last meeting, held on 11th April last, were read and confirmed. An account of receipts and expenditure was produced, showing a cash balance of 1651. 2s. 3d.; also an account of receipts and payments before the next meeting, on the 6th August next, showing a balance of 681. 2s. in favour of the mine; and, finally, an account of assets and liabilities, whereby a balance of 19381. 13s. 5d. in favour of the mine, which were all passed.—The Secretariax reported that the tender for 72 tons 2 cwts. 1 qr. of silver-lead ore, at 191. 5s. 6d. per ton, being the highest, had been accepted.

The following report, from Mr. James Wolferstan, was read:—

June 3.—The shaft, which has been sunk 2 fms. during the last month, is now down

June 3.—The shaft, which has been sunk 2 fms. during the last month, is now down 12 fms. below the 100 fm. level; we purpose to commence driving both north and south a soon as the men have combated caller and dividing the shaft, nettice is footness. The statement of accounts showed a balance of \$72.7 s. against the mine, to discharge which and other liabilities a call of LL per share was made. The prospects are exceedingly good, and some important discoveries have been recently made.—The following report, from Captain Michael Barbery, who was present at the meeting, was read:—

June 2.—In accordance with your request, I beg to hand you my report of the mine, with a detailed statement of operations since last general meeting, the purport of which I have much improved to the lode is a ft. wide, carrying a branch of lead 6 inches wide on may cannot be a statement of operations since last general meeting, the purport of which I have much improved of iste, and still continue, and will exceed the previous expectations I have held out to you. In my last report, I informed you that the same lode in the deep adit, was to last from surface, did not correspond with the same lode in the deep adit, was to the north of the deep adit, and that we had commence diving north to prove the same, and have to-day cut into a promising hole, but as yet are not through it; the gree here very much resembles that in the wines above, a specimen of which I beg leaves to present, wines, which is now down a tel's firm, select the 100 cuts. of rich ore per fm.; the ucerate pitch is 15 fms. behind the least 16 fms. of which is through a promising and productive lode; the present end will yield on an average from 15 to 20 cwts. of ore per fm. This level is 7 fms. cast of Owen. The lode will tyield on an average from 20 to 40 cwts. of ore per fathom, but for the least 3 feet the lode will produce from 30 to 40 cwts, per fm. The lode in the stopes in the bottom of the shallew adit, west of Morgan's winze, is looking well, yielding from 15 to 20 cwts. of ore per fathom, but for the least 3 feet the lode will produce from 30 to 40 cwts, per fm. The lode in the stopes in the bottom of the shallew adit, west of Morgan's winze, is looking from 15 to 20 cwts. of ore per fathom, but for the least 3

are making every exertion to complete it to the 90, when this latter level will be well ventilated, and a long run of highly-profitable ground laid open; this, together with the 112 fm. level, will place the mine in a much more productive state, and we may very confidently anticipate a large increase on our present returns. Our next sampling will be about the 15th instant, and the quantity will, as near as I can calculate, be 75 tons. This month's setting is estimated to produce 42 tons, and I have every r eason to hope that the result will prove satisfactory.

### TAVY CONSOLS MINING COMPANY.

TAYY CONSOLS MINING COMPANY.

At the two-monthly meeting of adventurers, held at the mine, on the 4th inst., the accounts were examined and passed, showing—Ores sold to end of May, 675.—By balance last account, 211.1 los. 3d.; labour cost for March, 158. 18a. 7d.; ditto April, 182. 9a. 7d.; merchanta' bills, 76. 12s. 9d.: leaving balance to credit of mine, 45l. 9a. 4d.—It was resolved that the following shares be forfeited for non-payment of calls:—J. Colloma, 1; Thomas, Eliza, and W. Bullivant, 1 each—total, 4 shares.—The purser's report stated that the liabilities were 230t,, but that there was at surface sufficient ore to meet that amount, and 45 tons of ore had been sampled of the past month's work.

The following report, from Capt. Goss, the agent, was read to the meeting:—

\*\*Suse 4.—In presenting you with my usual two-monthly report, it gives me much pleasure to be able to say the mine has been progresing favourably since the last general meeting. Our tutwork has been confined chiefly to the 15 fathor level, which has been driven weesfor Jenkins's rise 9 fms. I ft. I in., leaving tribute ground; the lode now in the end is 3 ft. wide, carrying two well-defined walls; the lode is composed of spar, mundle, and copper ore, of the latter about 1 ton per fm., driving by three men and three boys, at 3. per fm. it has same level, east of the cross-course, where our driving is suspended for the present; and the men put to sink a winze in the bottom at driving is suspended for the present; and the men put to sink a winze in the bottom at driving is suspended four months since; here I hope to succeed in cutting the main lode north; from the end is lessing a large stream of water, and occasionally I find the ground of the condomy. We have recommenceddriving the cross-cours north in the 6tm. level, which was asspended four months since; here I hope to succeed in cutting the main lode north; from the end is Issuing a large stream of water, and occasionally I find the ground to be interrepared with spots of copper ore;

### BOTALLACK MINING COMPANY.

At a meeting of adventurers, held at the mine, on Tuesday, the accounts for January, February, and March, were presented, showing—Halance against adventurers, last account, 224l. 12s. 5d.; wages for three months, 1497l. 3s. 7d.; merchants' billa, carriage, &c., 899l. 8s. 5d.—262ll. 4s. 5d.—8424l. 14s. 1d.—leaving balance in favour of mine, 803l. 10s. 6d.—It was resolved that 500l. of the balance should be divided amongst the adventurers.—That, "as the increased produce of the mine enables us to resume the payment of dues to the noble lord and proprietor (the Earl of Falmouth), it is unanimously resolved, that the best thanks of the adventurers be offered to him for his liberal and handsome conduct in giving up his claims to dues during the poverty of the mine, a step which undoubtedly tended to keep up the spirit of the adventurers, and induced them to continue to work the mine even at a loss, and we sincerely hope that the future payment of dues will amply remunerate the noble lord for the sacrifice he has made."

WHEAL BASSET MINING COMPANY

### WHEAL BASSET MINING COMPANY.

WHEAL BASSET MINING COMPANY.

At the usual two-monthly meeting of adventurers, held at the mine, on the 4th inst., the accounts were examined-and passed, showing—Copper ores sold, February, March, and April, 5395l. 6s. 3d.; ditto, April, May, and June, 687l. 17s. 7d. (less lords' dues, 405l. 10s. 11d.), 5677l. 12s. 11d.—By labour cost, March and April, 2277l. 9s. 9d.; merchants' bills, 857l. 9s. 6d.: leaving a profit of 2542l. 13s. 8d.; to which add balance, last account, 518l. 5s. 4d.—3060l. 19s.—A dividend of 10l. per share (2560l.) was declared: leaving a balance in hand of 500l. 19s.

The state of the s	PRICES OF METALS. UNE 7, 1850.
Bar, bolt, □, London 45 2 6-5 16 Nail rods 6 5-6 16 No. 11 rods 6 5-6 16 No. 12 rods 7 7 15 0-8 16 No. 12 rods 7 7 15 0-8 16 No. 12 rods 7 1	Tile
Sheets, sheathing, & holts, p. lb. 0 0 91	English sheet per ton 21 0 0

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MONTHLY REPORT.—IRON: in Welsh har-iron a considerable business was done in the early part of the month, but without any advance in the price, which remains uniered. Staffordshire hoops, sheets, and nali-rods have been in moderate request at quoted prices. A strike has occurred among the colliers in the neighbourhood of Glasgow, and a large number of the iron furnaces have been put out of blast. Consequent on this, Scotch pigs have commanded better prices, and a considerable business has been recently done at prices of 16 feb., cash, for mixed You, but the price now is 45s. 6d. Swedish to the price of the p

ing shipped from Sweden for this country, unless previously sold. Swedish steel is without variation.

COFFER: English was reduced on 1st inst. \(\frac{1}{2}\)d. Per 1b. on manufactured, and 4/. 10s. per ton on unmanufactured. For some time past the demand has been very languid, but this reduction will probably bring forward many orders. The imports of foreign in May were unimportant, as also were transactions in it. The quotations for refined Russian and Chillan remain at about 91/. Per ton. Yellow metal sheathing was reduced \(\frac{1}{2}\)d. Chillian termin at about 91/. Per ton. Yellow metal sheathing was reduced \(\frac{1}{2}\)d. Per b. on the 1st inst.

Tis: The domand lately for English has been inanimate, and prices unsettled. On 1st inst. a fall occurred of 3s. per cwt. on common, and of 2s. per cwt. on refined; this last is in much request, and is scarce. Banca and Straits remain at much the same price as on the 1st uit, but the late reduction on English may possibly induce holders to accept lower rates. A fair amount of business was done last month in Straits, at 70s.

Tin-Playes: Charcoal are in fair request; coke are a shade lower. Large sales of this description were made in last month, and the demand continues good.

Lead: Export orders not having come forward to the extent calculated on, this article is not so firm as it was, and prices are rather lower than on 1st uit. The imports of Spanish during May were 323 tons here, and 105 tons at Liverpool. In May, 1849, the imports were 635 tons.

Systexes has been very unsteady for several weeks, owing to the large parcels bought early in the year for strival being offered for sale, and which found buyers pretty readily at 14. 15s. Dealers have been firm at 15i., and at this price have made sales to a moderate extent. The imports offered for sale, and which found buyers pretty readily at 14. 15s. Dealers have been firm at 15i., and at this price have made sales to a moderate extent. The imports offered for sale, and which found buyers pretty readily a

LIVERPOOL, JUNE 5.—In manufactured from the prices remain the same, and the demand limited. In Scotch pig-iron the market has lost much of its activity, and prices are beginning to give way; the present price is 45s, per ton for mixed Nos.—sellers rather than buyers. It is rumoured that the colliers have gone in again, at a slight advance of wages. Thus one of the props of the late advance is withdrawn; and when it is remembered that even the reduced make is more than equal to the consumption, without tranching in any way upon a stock of about 300,000 tons in reserve, we think prices must further decline. The orders from America, per Miogarq, are very light, and the accounts for metals dull. In the plates the demand is pretty good, but block tin has declined 3t, per ton, and this will slightly affect the price of plates. Copper has also declined 4d, per 1b.

MANCHESTER, JUNE 6.—The market remains completely inactive, and there is no disposition to operate to any extent. What little business is doing is still restricted almost entirely to a few speculative transactions for Glasgow settlement, the demand for Runcorn and Ficetwood deliveries, which is the true index of the state of the trade, having almost entirely ceased. The price for good brands in Glasgow is still quoted nominally at 46s, per ton, eash, but there is no report of business having been done there at that rate. For delivery at Runcorn and Fleetwood, the nominal price is about 49s. to 50s. per ton; and as this is out of all proportion with the Glasgow quotation, it is highly probable that the price in tilat market must recede, unless a legitimate demand should spring up, of which, at present, there are no indications.

GLASGOW, Jure 6.—The market for pig-iron throughout the week has been quiet at the nominal price of 46s., cash, assorted Nos., but there are very few selfers. Buyers to some extent at a shade lower. The stock of coal is fast being reduced, and as there is no appearance of the masters and coal miners coming to any arrangement, it is feared the make of pigs will be still further reduced, so that an advance in the price may be naturally looked for.

THE NEEDLE TRADE OF REDDITOH.—We are glad to find that every branch, connected with the needle trade is in a prosperous state, and the workpeople have obtained a considerable advance in wages. In many cases sufficient hands cannot be obtained, and large orders have, in consequence, in several instances been declined.

# Current Brices of Stocks, Shares, & Metals.

MINEA.—Since our last, there has been (as we anticipated) a large amount of business transacted, and the enquiries for shares in most of our leading mines continue to the present time. Some have been done at a very considerable advance, and in several instances, shares that have been dormant for some time

continue to the present time. Some have been done at a very considerable advance, and in several instances, shares that have been dormant for some time are in active request. In many mines improvements have been advised; and, from our correspondents generally, we learn that the mines throughout Cornwall and Devon, are in a most favourable and improving position.

In Treviskey and Barrier several transactions have taken place at an advance. South Tolgus shares have also been in request, in consequence of an improvement in the mine.

West Treasury, Alfred Consols, Mary Ann, Trethellan, East Buller, South Frances, Treleigh Consols, and South Basset, have been enquired for. South Tolgus, Bedford United, Wheal Buller, and Alfred Consols are represented to have improved during the past week.

Pendarves Consols were much in request yesterday, and several transactions took place at considerable advance on former quotations. Information was received that a discovery had been made on Wednesday last in the main lode north in the 20 fm. level, which was cut worth 25t per fm. The 10 fm. level, on the caunter lode, was worth 10t per fm.; and the 20 and 30 fm. levels worth 5t per fm.—the latter was expected to improve daily.

The litigation which has been so long pending between the West and South Caradon adventurers and the landowners, who have claimed compensation for injury done to their land by the overflowing of the water used at the mines, is now likely to be arranged by arbitration, and competent parties appointed to assess the value of the land representatives of the mines been met with that liberality and justice which should be expected from the duchy officials, in the promoting and encouraging of mining enterprise by conciliatory measures, instead of stringent and oppressive opposition.

At Wheal Basset two-monthly account, the profit for the months of March and Anvil was aboven at 2542t. Ils. 8d., which, with the halance left, from last

mining enterprise by conciliatory measures, instead or stringent and oppressive opposition.

At Wheal Basset two monthly account, the profit for the months of March and April was shown at 2542. Iss. 8d., which, with the balance left from last account, gave a credit of 3660l. 19s. A dividend of 2560l., being 10s. per share, was declared, leaving a balance in hand of 500l. 19s. The mine is reported to be looking exceedingly well.

Botallack account meeting was held on the 4th inst., when the statement of accounts for the months of January, February, and March showed a balance of 808l. 10s. 6d. in favour of the mine. It was resolved to divide 500l. amongst the adventurers. The mine is represented in a very improving position.

At the meeting of the General Mining Company for Ireland, the second dividend of 5 per cent. for the present year was declared. The prospects of the company are represented in a highly favourable and flourishing condition. Arrangements have been recently made for a considerable addition to their mineral property.

vidend of 5 per cent. for the present year was declared. The prospects of the company are represented in a highly favourable and flourishing condition. Arrangements have been recently made for a considerable addition to their mineral property.

At the Eagair Liee meeting, the accounts for four months, up to April, were produced, showing a balance against the mine of 272L 7s., and a call of 1L per share was made, which, it is expected, from the favourable position the mine is in, will clear off all liabilities, and bring the same into a paying state.

At the usual bi-monthly meeting of South Tamar shareholders, the statement of accounts showed a cash balance of 165L 2s. 3d., and the account of receipts and payments before the next meeting, on the 6th August next, showed a balance in favour of the mine of 68L 2s. whilst the assets over liabilities are given at 1938L 13s. 5d. in favour of the mine. Since the last meeting, 72 tons 2 cwts. 1 qr. of silver-lead ore had been sold, realising 1889L 17s. 3d. The manager's report represents the prospects of the mine in a very gratifying position, and that he anticipated a large increase on the previous returns.

At the East Tamar bi-monthly meeting, the account of expenditure and receipts was laid before the meeting, showing a balance in favour of the mine of 66C 18s. 1d; also an account of payments and receipts to the 6th of August, showing an excess of the former over the latter of 201L 9s. 4d. The assets showed a balance in favour of the mine of 183L 10s. 8d. An estimate of Whitsome engine, erected for the mutual benefit of East and South Tamar Mines, was valued at 686L, one-third of which, 256L 17s. 6d., is due from the latter mine. The secretary stated, that the highest tender for 70 tons of silver-lead ore, at 14L 16s., was accepted on the 27th ult. The manager's report of the mine is highly satisfactory, which will be found in another column. At the first general meeting of Caradon Vale shareholders, the usual preliminaries were entered into, for carrying on the mi

ings of the past month. The mine is in a more cheering position than ever before seen.

At the Pennant and Craigwen quarterly meeting, a call of 10s, per share was made. We learn that arrangements have been made with the landowner, who has consented to relinquish the heavy fixed annual rental on receipt of a certain amount, which will relieve the shareholders to a very considerable extent, and that preparations are being made to carry out the works with vigour. At the meeting of Tolcarne adventurers, the accounts produced, showed the expenses for the six months' working, including engine, boiler, &c., to be 14431, 19a, 4d.; credit, from call made in Docember 1ast, 6304, 13s, 9d.; leaving 8131, 5s, 7c, against company, to meet which a call of 34, 7s, 9d. was made. By letters received from Camborne, we learn that Wheal Harriet is looking remarkably well, and some fine stones of grey copper ore have been taken from the adit level.

The monthly sale of lead ore from Herodsfoot Mine (60 tons) realised 10301. The monthly sale of silver-lead ore from Wheal Mary Ann (90 tons) realised 191, 7s, 6d. per ton, or 17431, 15s. The report is favourable.

A call of 5s, per share has been made by the Mendip Hills directors.

Favourable reports have been received from Wheal Union, and shares have been done at an advance in consequence.

Shares in the following mines have changed hands since our last:—Devon Great Consols, South Frances, Comfort, Tresavean, South Basset, Alfred Consols, Treviskey and Barrier, South Tolgus, Carn Brea. West Caradon, Tincroft, Treleigh Consols, Penzance Consols, South Tamar, Tregear, Exmoor Wheal Eliza, Wheal Farnes, Stray Park, West Stray Park, Bodmin Consols, the Great Consolidated, and Tavy Consols.

In Foreign Mines there has been a corresponding improvement in the bus'ness done. United Mexicas, St. John del Rey, Cobre and Santiago, and Im-

sols, Tolearne, West Trethellan, Lelant, Cook's Kitchen, East Tamar, South Tamar, Tregear, Exmoor Wheal Eliza, Wheal Francis, Stray Park, West Stray Park, Bodmin Consols, the Great Consolidated, and Tavy Consols.

In Foreign Mines there has been a corresponding improvement in the business done. United Mexicas, St. John del Rey, Cobre and Santiago, and Imperial Brazilian, have been freely dealt in. The advices from the Linares Mines, both private and official, are of a very encouraging character; and a great number of shares have changed hands. Copiago, Australian, Barossa Range, and National Brazilians, have also been done.

The usual monthly despatches from the Copiago Mines was received on the 3d inst. The report for the month of February presents a very cheering account of the operations at the respective mines. The Checo Copper Mine continued to present the improvements advised in last report. The San Pedro Mine is also productive in the 12 fm. level west, and on the north lode. The La Compania, and La Reyna, were in an impreving position. The produce from the mines Checo, San Pedro, and La Compania, for the month was 64 tons of copper ore. The silver mines generally are looking in a very healthy position, more especially the Al Fin Hallada Mine. In the gold mines, the prospects continue to present the most cheering encouragement, with every appearance of early improvements.

The directors of the National Brazilian Mining Association have issued the report for the year ending the 31st Dec., 1849, by which we find the proceeds of gold received amounted to 7425£ 17s. 20.; whilst the expenditure appears to have considerably exceeded the returns, which have been met by Messrs. Oxenford and Hamilton to the extent of 8826£ 9s. 6d.- But it must be observed that the amount credited in the account current as gold sold embraced only that which had arrived and been realised in London up to the 31st Dec., 1849; whereas the gold actually raised from the mines during that year amounted to mks. 375 7 0 48 against mks. 17s

cuted diagram lies in the office, showing the monthly progress of the workings; and on so well defined a plan, that a person even unacquainted with mining could be made to understand the nature of the workings. We refer to the report in another column.

At the meeting of the Anglo-Mexican Mint Company, a dividend of 15s. per share was declared for the half-year, and a bonus of 15s. on the 10t. shares From Copiapo we learn that many new discoveries of silver mines had been made, but there was a scarcity of persons to work them. Means to obtain men from the various Pacific ports had been taken by the different mining agents.

Sharrak Company	PRICES OF M	INING SHARES.
1994 Alabhement United Mines   9	BRITISH MINES.	BRITISH MINES—continued.
1994 Alabhement United Mines   9	Shares. Company. Paid, Price	128 South Caradon 5 270
1994 Alabhement United Mines   9	1024 Alfred Consols 8f. 25 2 1248 Allt-y-Crib 5 5	5 1100 South Dolcoath 5 4 256 Sth. Friendsh. Wh.Aup 30 28
1906   Barristorn	1024 Aphysten United Minns 91.	
1096   Bilishand Connols   1	1624 Balleswidden 9 14 128 Balnoon Consols 42‡ 20	256 South Tolgus 16 135 1
1096   Bilishand Connols   1	3650 Bawden 4 #	2000 South Wales Mining Co. 1 1
1096   Bilishand Connols   1	4000 Bedford 23 5 5	124 South Wheal Bassut - 101 250
1096   Bilishand Connols   1	5000 Black Craig & Craigton 5	10000 Southern& Western, Irish 24. 4
Bosorn	5000 Blisland Consols 1 —	128 Spearne Consols 10 66
1900   Strike Iron, New, regis   19   19   19   19   19   19   19   1	5000 Bodmin Moor Consols 3	100 04 141 1 10 111 111 111 111
1909 Callington	100 Botallack 182 110	999 St. Minyer Consols 1 6
1909 Callington	10000 British Iron, New, regis. 12 8	9600 Tamar Consels 3 4
1909 Callington	2400 Bryn-Arian 2 14 2	687 Tavy Consols 6 2 4
2000   Camerou's Steam Coal	260 Butterdon 1 2 3	940 Tolourne
1.585 Caradon Wale   1.59		256 Tregorden 31 7
1000 Carther Consols	256 Caradon Mines 221. 10	200 Trelega Consols b 3 3
1000 Cartilere Consols	1536 Caradon Vale \$	
1000 Copute Valley Quarry 5	572 Caradon Wh. Hooper . 5 . 42	96 Tresavean 10 100
1000 Copute Valley Quarry 5	1000 Carthew Consols 13. 7	120 Treviskey and Barrier 130 245 20
1000 Copute Valley Quarry 5	128 Comfort 45 38 40	512 Treville (Lewanick) 72
1000 Cwn Erfn	956 Candarraw 30 01 100	200 United Mines 50 140 50 (256 Wellington Mines 25
1000 Cwn Erfn	1000 Coombe Valley Quarry 5 5 54	128 West Buller 10 550 256 West Caradon 20 90 16
1000 Cwn Erfn	900 Court Grange 9 10	512 West Fowey Consols . 40 . 12
1000 Divarcode     2   5   5   5   5   5   5   5   5	128 Creeg Braws 120 30 500 Cubert Mine 124	2500 West Polgooth 5 7 Ditto Notes 3 44
1000 Divarcode     2   5   5   5   5   5   5   5   5	1000 Cwm Erfin 4 34 4 1000 Daren 2 . 7 72	512 West Providence 9 20 2 200 West Seton 45 180
1000 Divarcode     2   5   5   5   5   5   5   5   5	302 Devonacourtemy con. 117. a ar	120 West Trethellan 5 20 512 West Wheal Frances 11. 9
256   East Godolphin   19	1094 Davon Great Consols 1 945 950	256 West Wh. Friendship. 9 8 3845 West Wheal Jewel 12 21 3
256   East Godolphin   19	182 Dolcoath	940 West Tolgus&Treloweth 12 53 6 500 West Wheal Towan 21 11 1
256   East Godolphin   19	3000 Dyfngwm 10 5	1024 West Wheal Treasury 7 10 11 12 1024 West Wheal Virgin 4 4
256   East Godolphin   19	2500 East Birch Tor 3 3 1024 East Buller 2 4 5	1024 Whiddon Mines 42 5200 Wicklow Copper 5 144
19   East Wheal Crofty   125   95   128   Inam Maria   7   4   128   East Wheal Seton   2   2   2   25   25   6   Wheal Bal   10   22   22   25   6   Wheal Bal   10   22   25   6   Wheal Bal   10   22   25   6   Wheal Bary   11   2   24   24   Exanor Wh. Eliza   11   14   15   15   44   Fowey Consols   40   45   45   45   6   Wheal Calstock   9   10   24   Exanor Wh. Eliza   11   14   15   45   25   6   Wheal Calstock   9   10   22   25   Garras   41   23   25   Garras   42   25   Garras   44   25   25   Garras   44   25   25   Garras   44   25   25   Garras   44   2   25   Garras	2048 East Crowndale 75. 15 256 East Godolphin 10 13	Sulphur Mines 3 3; 3
19   East Wheal Crofty   125   95   128   Inam Maria   7   4   128   East Wheal Seton   2   2   2   25   25   6   Wheal Bal   10   22   22   25   6   Wheal Bal   10   22   25   6   Wheal Bal   10   22   25   6   Wheal Bary   11   2   24   24   Exanor Wh. Eliza   11   14   15   15   44   Fowey Consols   40   45   45   45   6   Wheal Calstock   9   10   24   Exanor Wh. Eliza   11   14   15   45   25   6   Wheal Calstock   9   10   22   25   Garras   41   23   25   Garras   42   25   Garras   44   25   25   Garras   44   25   25   Garras   44   25   25   Garras   44   2   25   Garras	128 East Pool	1000 Wheal Agar 6
19   East Wheal Crofty   125   95   128   Inam Maria   7   4   128   East Wheal Seton   2   2   2   25   25   6   Wheal Bal   10   22   22   25   6   Wheal Bal   10   22   25   6   Wheal Bal   10   22   25   6   Wheal Bary   11   2   24   24   Exanor Wh. Eliza   11   14   15   15   44   Fowey Consols   40   45   45   45   6   Wheal Calstock   9   10   24   Exanor Wh. Eliza   11   14   15   45   25   6   Wheal Calstock   9   10   22   25   Garras   41   23   25   Garras   42   25   Garras   44   25   25   Garras   44   25   25   Garras   44   25   25   Garras   44   2   25   Garras	256 East Tolgus 13. 7	240 Wheal Anderton 28
1286   Eagair Lice	94 East Wheal Crofty 125 . 95	512 Wheal Anna Maria 7 . 4
1286   Eagair Lice	256 East Wheal Seton 21. 21	256 Wheal Benny 19 5
100	1280 Eagair Lice 2 4	
100	494 Fowey Consuls 40 45	268 Wheal Courtenay 20 . 23
190	256 Garras	256 Wheal Fortesche 15 —
190	2500 Georgia Consols (Tin) 1 11 256 Gomaneum	764 Wheal Franco 27 8 10 1
1026 Gustavus Mines	128 Goonvrea 4 2 256 Grambler & St. Anbyn 80 174	1000 Wheal Grose 35 54
1026 Gustavus Mines	96 Great Consols 1000 250 512 Great Wheal Baddern 50	6000 Wheal Langford 1
1024 North Buller	512 Gt. Wh. Rough Tor Con. 241. 20 6000 Growa Slate Company . 5 5	1024 Wheal Lawrence 31. 31
1024 North Buller	1026 Gustavus Mines 3 34 1024 Hawkinger 124 10	112 Wheal Margaret 79 180 512 Wheal Mary Ann 5 42 4
1024 North Buller	6000 Heignston Down Con24 3 32 2 44 1500 Hennock Silver-Lead. 21s 6	3000 Wheal Penhale 14 . 6
1024 North Buller	512 Herodafoot 16 15 154	1024 Wheal Providence 1 21 3
1024 North Buller	1000 Holmbush 22 . 10	198 Wheal Seton 107 250
1024 North Buller	1024 Kingsett and Bedford . 34 . 4 44	512 Wheal Sophia 54 6
1024 North Buller	2048 Lamherooe Wh. Maria 10 6 7	128 Wheal St. Ann 30 35
1024 North Buller	256 Lelant Consols 47 164 184	260 Wheal Trelawny 7292 94
1024 North Buller	1000 Lewis	1024 Wheal Tremayne 94 11 1:
1024 North Buller	3600 Llynvi Iron 50 50	512 Wheal Venton 24 32
1024 North Buller	198 Metha 34	128 Wheal Vlow (Perranz.) 12 14
1000   10000   10000   10000   10000   10000   10000   10000   10000	1004 New Fast Crowndele 2 4	_
1000   10000   10000   10000   10000   10000   10000   10000   10000	1024 North Buller 14 34 4 100 North Pool 45 450 475	
10000	140 North Roskear 54 160 262 North Wh. Leisure 14 2	15009 Asturian Mining Co 15
10000	512 North Wheal Vor 24	10000 Brossu Range 18 2 24
10000	1026 Pendarves Consols 25 6 7 1000 Pendarves & St. Aubyn. 4 5 6	12000 Cobre Copper Co 40 352 10000 Copiapo Mining Co 14 4 44
10000	1248 Pengelly Tin 1 1 6201 Penuant & Craigwen 21 21 3	2000# General Mining Ass'n. 20 - 13 13 400# Guadalcanal 5 - 1
10000	1000 Penybank and Erglodd 4 5 1024 Penzance Consols228 3d 4 42	2000 Ditto Preferential 2 2 5000 Kinzigthal Mining Ass. 2 3
10000	5000 Peter Tavy & Mary Tavy 1 1 1 512 Plymouth Wh. Yeoland 61 6	500 Ditto New 3 3 31
10000	2500 Rhoswiddol&Bacheiddon10 10	20000 Mexican & South Amer. 8 1 1
2000 Rocks Mine	10000 Rhymney Iron 50 12 10000 Ditto New 7 3	104000 N. Brit. Australasian 10s
"." We should feel obliged by agents, or others, furnishing us with corrections—our object being to present as correct a list of prices as can be obtained.	2500 Rocks Mine 5 6 7	11000 St. John dei Rey 15 15 15
"." We should feel obliged by agents, or others, furnishing us with corrections—our object being to present as correct a list of prices as can be obtained.	9000 South Tamar 1 24 3	10,000 Worthing (S. A.) 2 21
	We should feel obliged by agents, or	others, furnishing us with corrections—our

ARRIVALS OF SPECIE.—The following arrivals of specie have just taken place:—The ship Empress, from Sidney, has brought one box of bullion, addressed; the Venezuela, from Havre, 282 slabs of copper addressed; the Tory, two boxes of silver, consigned, and one box of gold specie, to order; the Joshua Waddington, from Valparaiso, five bags of silver ore, 280 bars of copper, and 377 bags, and 25 tons of copper ore, consigned, and 234 bars of copper to order; the Lord Haddo, from the Mauritius, one cass of specie, addressed; the Charlotte Jane, from Canton and the Cape, one package of gold and silver, addressed, and one box of gold consigned to order; the Emism, from Port Adelaide, 3639 bags of copper ore, to order; the Catherine Jenkins, 9524 ingots of copper, and 440 tens reight of Seventus consigned to order, the Admiral Morrows from the bags of copper ore, to order; the Catherine Jenkins, 9524 ingots of copper, and 140 tons weight of regulus, consigned to order; the Admiral Moorson, from the Bay of Banduas, Mexico, four packages of dollars, consigned; the Phennician, from Sidney, 36 ingots of copper, to order; the Benjamin Elkin, from Port Adelaide, Australia, 3479 bags of copper ore, to order; and various others.

Specie From America.—The American line of packet-ship, Prince Albert, arrived in the docks from New York, has brought 20 packages of species and the American packet-ship, Devonshire, also arrived in the docks on the same day from New York, has brought 20 packages of specie, consigned to an emineat house in the metropolis.

The Tunnel Through the Alex.—The King of Sardinia has sanctioned the law allowing a credit of 120,000f. for the erection of the machine for the perforation of the great tunnel of the Savoy Railroad, between Bardenêche and Modane. An hydraulic machine is to be erected to put the former in motion.

South Wales.—The opening of this important line of railway from Chep-

SOUTH WALES.—The opening of this important line of railway from Chep-stow, in Monmouthshire, to Swansea, in Glamorganshire, is now announced for Tuesday week, June 18th. The Government inspector, Capt. Symons, ac-companied by Mr. Brunel, passed over that portion of the line on Wednesday, prior to the formal opening for traffic.

WHEAL POOL (LEAD) REAR HELSTON.—This sett had been taken up by a party, some time back, but instead of commencing operations on the mine, the adventurers have erected machinery, and commenced streaming the Green, which is now in full course of working; the water is kept back by a very powerful water-wheel and pumps, and a splendid floor of tin has been discovered, but it is reported that more machinery is required.

### LEAD ORES.

Ticketings for about 100 tons (20 cwts.) Newtonards Lead Ore.

Douglas, Isle of Man, June 3.

Walker, Parker, & Co. (purchasers)	£10 1 0
Sims, Willyams, & Co	
T. Somers	10 0 0
THE PARTY AND PROPERTY OF THE PARTY AND PARTY OF THE PART	
Sold at Aberystwith, June 3.	
East Logylas 60 £11 18 0 R.	Michell & Son.
ditto 60 11 18 0	
Frongoch 80 10 18 0 Pa	nther Smelting Co.

BLACK TIN.

Mine.	Tons.	Price.	Purchaser.
Mineral Court	. 14	£51 12 6	Daubuz.
ditto		. 95 0 0	ditto

### COPPER ORES.

Samp	led A	fay 22,	an	d S	lold	at T	yack	's Hotel, Camborne	, June	6.			
Mines.	Tons.		1	Pric	¥.		1	Mines.	Tons.	100	P	rice	
Wh. Seton	. 89	** ***	25	. 1	0			Camborne Vean	96		£1	19	6
ditto	84		4	3	6			ditto	93		7	6	0
ditto	81	****	6	14	6			ditto	89		4	12	6
ditto	80	****	5	12	6			ditto	71		- 3	14	6
ditto	79		2	13	-6	0.		ditto	55		- 5	19	6
ditto	78		4	2	6			ditto	5.8		4	7	0
ditto	68		2	5	6			ditto	52		1	14	0
ditto	68		6	15	6		l	Wh. Francis	. 69		3	18	0
ditto	43		4	17	0		ĺ	Wh. Busset	. 92		3	19	6
ditto	22		2	11	9		1	ditto	87		2	16	6
Pendarves	. 76		3	13	6			ditto	84		6	4	0
Tincroft	.110	****	3	16	0		0	ditto	72		3	12	6
ditto	106		1	9	0			ditto	67	****	6	4	o
ditto	71			ī	0			ditto	63	****	6	3	6
ditto	70		2	2	0			ditto	51		20	9	6
ditto	68		9	99	0			ditto	5		6	17	0
ditto	61	****	3	0	6			South Wh. France			5	15	6
ditto	60	****	9	12	0	1		ditto	73		6	ĩ	0
ditto	58		Ā	9	6			ditto	46	****	7	13	0
ditto	56		9	9	6			ditto	45		7	13	0
ditto	36	** **	8	16	0		77	ditto	35		6	9	6
North Pool	105	****	A	0	6			East Pool	. 99		ĭ	16	0
ditto	102		A	1	6			ditto	55			19	6
ditto	93		Ā	i	6	1		ditto	54		9	3	6
ditto	92		Ä	1	0			ditto	44		0	6	6
ditto	91		3	À	0	1.		Fowey Consols	. 91	****	5	18	0
ditto	77		2	0	0			ditto	80		6	9	6
ditto	65		2	7	6			ditto	76		6	10	0
East Wh. Crofty			5	5	6			Condurrow	68		4	9	0
ditto	108	****	3	18	6			ditto	67	****	6	4	0
ditto	78		3	5	6			ditto	59		ï	16	6
ditto	36		2	6	0			ditto	32		•	4	6
ditto	51		6	2	0			ditto		** **	2	- 2	0
ditto	36	****	1	5	6	1		Delegath	. 82		2	15	6
ditto	34	****	4	18	6			ditto	61			15	
ditto	22	** **	0	5	6			ditto	40	****	6		6
			4	16	0							.7	
Dudnaace	67		1	10	0		127	Month Poskson	37	****	3	11	0
Longelese	27				U			North Roskear	- 68		6	4	0

TOTAL PRODUCE

Wh. Seton	765	*****	€ 3466	19	6	Wh. Francis	578	 £2461	5	6	
Tincoft	696		2153	6	6	South Wh. Frances	279	 1826		6	
North Pool	625	****	2189	8	6	East Pool	252	 692	11	6	
East Wh. Crofty 2						Fowey Consols Condurrow	247	 1548			
Dudnance }	590	****	2364	11	6	Condurrow	242	 932	1	6	
Longelose						Dolcoath	220	 853	6	6	
Wh. Basset	521		3276	3	6	North Roskear	68	 421	19	0	

## COMPANIES BY WHOM THE ORES WERE PURCHASED.

	Tons.	Amount.
Mines Royal		
Vivian and Sons		4876 5 €
Freeman and Co		2261 5 6
Grenfell and Sons	816	3557 12 0
Crown Copper Company	34	210 16 0
Sims, Willyams, and Co	497	2333 16 6
Williams, Foster, and Co	1398	6187 10 9
Schneider and Co	342	1500 8 6
the first of the state of the first of the state of the s	-	

Copper ores for sale on Thursday week, at Androw's Hotel, Redruth.—Mines and Parcels.—Carn Brea 850—Tywarniayie 746—Par Consols 342—Wheal Buller 282—Levant 244—West Wheal Treasury 196—Wellington Mines 171—Wheal Mary 133—West Wheal Soton 126—Wheal Agar 122—Alfred Consols 100—Charlestown United Mines 97 —Wheal Tremayne 86—West Fowey Consols 74—Herland 23—St. Aubyn and Grylls 22—Wheal Friendship 13—Treziae 12—East Wheal Treasury 10—Trannack 5—Wheal Squire 4—Pembroke 1.—Total quantity of ore to be sold, 3663 tons.

Total tons..... 5083 £22,186 13 0

Copper ores for sale on Thursday week, at Andrew's Hotel, Redruth.—Mines and Par-celled.—Devon Great Consols, Wheal Josiah, Wheal Maria, Wheal Fanny, and Wheal Aria Maria 1382—West Caradon 348—Marke Valley 270—Fowey Consols 243—Wheal Friend ship 232—Holmbush 128—Bedford United Mines 118—Phoenix Mines 103—South Whea Fortune 63—West Wheal Jowel 57—Wheal Busy 42—Wheal Pink 37.—Total, 2993 tons

# COPPER ORES

Sampled May 15, and Sold at Swansea, June 6, 1850.

	Mines.	Tons.	Prod.	Price.	Mines.	Tons.	Prod.	Price
	Berehaven	.128	101 €	7 4 6	Burra Burra	. 60	370 408	9
ı	ditto	.123	92	7 0 6				
	ditto	.112	10	7 4 6	ditto			
	ditto	. 96	114 8	10 6	ditto			
	ditto	. 81	94	0 6	ditto			
H	Cabre	.112	161 1	15 6	Dudley Slag			
i	ditto				Manx	. 8	40 9	14 1
	ditto				ditto			
1	ditto							
П	ditto				ditto			
d	ditto							
П	Kuockmahon .				Sonth Australian			
	ditto				ditto			
ı	ditto				ditto	9	10819	0 0
ı	ditto				ditto			
1	Santiago				Australian			
1	ditto							
1	ditto				Chill	23	403 34	7 4
1			2015		Gurtnadyne	22	84 6	3 0
1	ditto				Lackamore	21	131 10	19 (

# TOTAL PRODUCE.

1	Berenaven	040	£ 3982	14	0	Manx	30	£III	11	0
1	Cobre	511	6770	7	6	South Australian	27			
1	Knockmahon	325	1805	0	0	Australian	27	423		
1	Santiago	294	3143	0	0	Chili	22	756		
ı	BurrajBurra	231	6441	2	6	Gurtnadyne	22	135		
ı	Dudley Slag	84	79	16	0	Lackamore	21	229		

COMPANIES BY WHOM THE ORES WERE PURCHASED.

The state of the problem of the problem of the state of t	Tons		Am	oun	t.	
English Copper Company	107	£	1589	10	0	
Grenfell and Sons	436		4451	12	0	
Sims, Willyams, and Co			2532	18	0	
Vivian and Sons	318		4923	19	0	
Williams, Foster, and Co	828		6934			
Mines Royal Company	76		1657		0	
Schneider and Co			2265		6	
authorization principles product at annothing or					_	

Copper ore for sale June 27.—Berehaven 125, ditto 124, ditto 115, ditto 103, ditto 84, ditto 83.—Cuba 100, ditto 95, ditto 93, ditto 78, ditto 44, ditto 40.—Knockmahon 98, ditto 90, ditto 69, ditto 69, ditto 48.—Kapunda 25, ditto 17, ditto 16.—Forest Slag 52.—Burra 88.—Australian 38.—London Ore 9.—Ballymurtagh 44.—French ore 18.—Yine Slag 12.—Sonth Australian 6, ditto 5.—Gloucester Slag 2.—Santiago 33.—Total, 1767.

# MINING APPOINTMENTS DURING JUNE.

ALINING APPOINTMENTS DURING JUNE,
Pay-day at Par Consols, Dolocath, and Stray Park,
Wheal Seton account, on the mine—Par Consols sampling,
United South Caradon and other mines sampling—Wheal Mary account on the mine
Ticketing at Redruth—Carn Brea and other mines.
Stray Park account—North Pool setting,
Fowey Consols setting and pay,
Condurrow account on the mine—Fowey Consols sampling,
East Pool and Fowey Consols account, on the mine.
North Roskear and other mines sampling,
Ticketing at Redruth—Devon Consols and other mines.

\*\* The report of Wheal Trescoil only reached us this morning, c with several other matters, its insertion is necessar.ly postponed.

## NOTICES TO CORRESPONDENTS.

TAYY Corsols.—To correct an error from one of our correspondents, a few weeks since, we are informed that the cost of shares in Tayy Consols has been 62, each; selling price ne quotation, as there are no sellers. The mine is now in 687 shares only, the remainder of the 1024 having been resigned or forfeited for mon-payment of calls, and are beld as stock by the company, so that any one buying a 1024 share is actually purchasing a 687th share.

Tavistock Correspondent" should write to the committee about the brass windbore is communication respecting Wheal Anderton materials can only appear with hi

mane attached.

"R. P." (Crediten). —A list of dividends paid in Corawall and Devonshire mines in 1849 was published in the last Journal of the year. The amount paid by West Buller was 25604, or 304, per share.

"An Unfortunate."—The call of 104, per share on the Northern Coal Mining Company is made payable on or before the 24th inst.: the order is peremptory.

"Tyro Chemicus" (Bedford-street).—When a belleon, or hollow sphere, made of gold-beater's skin, or any animal membrane, or even of caoutchout, is filled with carburetted hydrogen, and left floating in the air, a process, termed entosmoses, immediately commences; and as it proceeds the vessel gradually swells, becomes heavier, sinks to the floor, and finally bursts. This is owing to the great tendency to diffusion existing in all the permanent clastic gases—the atmospheric air penetrating the pores of the membrane, mixing with the bydrogen, and a sampler portion of the hydrogen escapes and mixes with the atmosphere. A moistened bladder, two-third filled with coal gas, and sampended in carbonic acid gas, acts in a similar manner—it gradually swells and finally bursts. In this experiment sometimes as much as 40 per cent. of carbonic acid mixes with the call gas. By thus experimenting on different gases, it is found that the same volume of ammoniacal gas obtains access to the air in it, as subjuncted hydrogen in 24'; cyanogen, 34'; carbonic acid, 54'; protoxide of nitrogen, 64'; arreniuretted hydrogen, "—The gages siven off from decomposing human remains, consist of all.

Enquirer."—The gases given off from decomposing human remains, consist of sul-phuretted hydrogen, carburetted hydrogen, sundry phosphates, and nitrate of carbon —all most powerfully destructive to animal life. We cannot give any idea as to quan-tity, though we have no doubt a satisfactory solution may be found in Liebig's Or-ganic Chemistry.

BELL-SHAPED INSULATORS.—"B." (Chiswick.)—The question asked by our correspondent is one respecting which a great amount of misapprohension exists at the present moment. Earthenware was employed many years age in Germany as an insulating support for the wire of the electric telegraph; and bell-shaped insulators, made in part of match, and in part of varnished glass, were commonly used by Mr. Crosse in his early experiments at Broundeled. The combination, however, of the material (earthenware) with the bell shape was now, useful, and patentable. It is efficacions in the case of rain, but is no protective against the conducting depositions of dow and mist. We were informed, some time back, that the bell-shaped earthenware insulators were originally suggested by a geatleman in the employ of the company; and that the idea was subsequently adopted without acknowled gener, and incorporated as one of the prominent claims in the specification of a current patent. Be this as it may, the novely lies only in the combination; and the patent in this respect is, therefore, extremely circumseribed. What is to prevent any one from using insulators of this form, made of well-varnished wood? They might even be made of this plate, or other cheap motal, if properly insulated by non-conducting material. We will speak upon the subject of "stops" hereafter. There has been too great a stress laid upon this point.

Mr. David Mushet's paper on Mine Inspection shall appear in our next Journal.

subject of "stops" hereafter. There has been too great a stress laid upon the Mr. David Mushet's paper on Mine Inspection shall appear in our next Journal.

"A Mine Agent" ("B. C.," Calstock) observes that, from the discussion between "Matthew Mandle" and Mr. Bodkin, the public might conclude there was not an honest man connected with mining. "Matthew" throws his link on boards of directors in London; and, as a sort of rotaliation, Mr. Bodkin attacks the pursers as a body. Ho suggests that, although black sheep will be found in all professions, mining is as free from them as any. He considers, if the object of the writers is to effect a reformation amongst miners, and those connected with mines, they go the way to defeat their own views by personalities; and, when persons appear so ready to condemn others, the old axiom, "Physician, heal thyself," may be very properly applied to them.

"B. D."—We shall endeavour to have the papers revised, and publish them again in the Journal.

When Royes.—In reference to the article which appeared in last week's Journal, we have received a letter from Wigan, in which the writer states that one of Mr. J. B. Wilson's ropes, which had been in use 3 months and 5 days, has had to be withdrawn; the rope was composed of 48 wires, 40 of which had broken.

was composed or so wree, at or which had broken.

BRICES.—Sra: Having seen a peculiar description of brick, more like a composition than
manufactured from clay (it being very rough and coarse in its structure), and being
informed it stands heat remarkably well, as also resisting acid, i write to you to inquire
if you can give me any information as to how, and where such bricks are manufactured?
I am informed a great many are used in the neighbourhood of Swansca by the coppersmelters, and are there known as the Dina brick, or some such name.—A CONSTANT
READER: Leeds, June 5.

We have an interesting report on the "Times Life Assurance and Guarantee Company, which want of space compels us to postpone until next week.

\* It is particularly requested that all communications may be addressed-

at all commun.
To the Editor.
Mining Journal Office.
26, FLEET-STREET, LONDON.
14. 48 acting for the pr

And Post-office orders made payable to Wm. Salmon Mansell, as acting for the propriet

THE MINING JOURNAL Hailway and Commercial Sagette

LONDON, JUNE 8, 1850.

The MINING JOURNAL is published at about Eleven o'clock on Saturday morning, at the office, 26, Ficet-street, and can be obtained, before Twelve, of all news agents, at the Reyal Exchange, and other parts of London.

We have at length received the long-looked for report on the prevention of accidents in, and ventilation of, mines by Mr. J. Kennon Blackwell, and which, although evidently the production of a practical man, one who well understood his subject before he commenced his investigation, and which he has analy sed and commented on in a masterly manner, has really brought to light no new features on the subject, but only confirms, in a strong degree, the necessity for the immediate formation of a general inspection to carry out some of the valuable suggestions made by the writer. Notwithstanding we have said no new features are brought out by this report, we do not deem it unimportant. The lucid manner in which the different systems of working are explained, the impartiality with which he attacks abuses, and stigmatises neglect and carelessness, and his suggestions for instituting different modes of working where he considers the present one defective or dangerous, render the report a complete essay on colliery operations, and which will prove both interesting and instructive to all acquainted with the subject. Mr. Blackwell has great satisfaction in stating, that while fulfilling his instructions, he met with general support on the part of the coal proprietors of the districts visited, expresses his thanks for their courtesy, and for the facilities which they afforded him during his survey. The examination has been completed into the present state of ventilation, and the general condition of the mines in some of the most important districts assigned to Mr. Blackwell. The total annual production of the collieries which were visited will exceed 6,000,000 tons, and it is proposed to continue the survey until the remaining districts have been examined in the same way. Mr. Blackwell states, that from his prior knowledge, he has now been able to review the systems of mining employed in the latter, and also the methods practised in other important coal-fields in this country, which were found highly necessary, in order to present a complete analysis on the subject. The questions to whic vention of accidents in, and ventilation of, mines by Mr. J. KENYON BLACKWELL, and which, although evidently the production of a pracwhich were found highly necessary, in order to present a complete analysis on the subject. The questions to which Mr. Blackwell addressed himself more particularly, were—How far is the state of ventilation, and the condition of mines in other respects, calculated to insure the safety of the persons employed in them? What are the chief defects in the mode of conducting these operations, and what general improvements and precautions can be suggested in their management?

We now proceed to give some extracts from the body of the report itself, forming replies to the above queries:—

port itself, forming replies to the above queries:—

The systems or modes of working coal may be divided into two classes, which are usually called the pillar, or post, and stall, and the long wall systems. The pillar and stall method is that in which the operation commences by intersecting the seam of coal intended to be wrought by passages, or drifts, formed at convenient intervals, and at right angles to each other, pillars of coal being left standing between the intersections of these drifts for the support of the roof. The long wall method is that in which the whole of the coal seam is obtained at once, by working on the face of a bank, or wall, of solid coal, which is removed uninterraptedly, in convenient lengths, in one direction, the roof of the seam being allowed to fail, or close gradually, in the other. The variations, or modifications, which occur in these two systems may be classified in the following manner:—The three first variations affect the order in which the workings proceed, the two latter the form of the works. The first variation is common to both these systems. It is found, when the coal is worked out in eac operation, either wholly, or to a large on extent as may in the end be possible, excepting so much as may be required temporarily.

the tract of coal proposed to be wrought before the working of the coal is commenced. A third variation, applicable only to the pillar and stall system, is that of a partial working of the coal in boards, bays, or stalls, as the ways, or roads, progress, the larger part of the seam being left in pillars (or, as it is unsally termed, waste or broken), to be wrought out in returning. About one-third of the quantity militarity realised is generally taken in this first operation, but this proportion is sometimes increased. A fourth modification, in which the pillar and stall and long wall systems are united, is effected by working the coal in banks of considerable but varying widtin, pillars or coal being generally left between the separate banks, to secure the reads leading into them, and to divide the weight on the face of the bank. Other pillars are also left between the goaves formed by the working banks, and the main ways, or roads, of the mine, for the protection and support of these roads. A fifth modification, connected with the pillar and stall system, is caused by the nature and thickness of the seam to which it is applied in South Statfordshire, especially by the nucessity of secluding the goaves which are formed in working from the action of the sir, by leaving ribs, or barriers, of coal surrounding the sides of work, or chambers, in which it is wrought. The comparative advantages, or disease, of these different system of coal mining can only be determined by the examination of the circumstances of each individual case. In general one or were are practiced, to the exclusion of the others, is each of the various coal districts, their selection having been the result of experience with regard to the nature, thekmas, and other period of the others, is each of the various coal districts, their selection having been the result of experience with regard to the nature, thekmas, and other or coalisions.

The report them proceeds, at length, to describe the several systems of

The report then proceeds, at length, to describe the several systems of working pursued in Northumberland and Durham, in Lancashire, South West, Shropshire, Yorkshire, Derbyshire, and Staffordshire—all of which partake, more or less, of the descriptions in the above extract. On speaking of the objects to be proposed in the ventilation of mines, he says—

partake, more or fess, of the descriptions in the above extract. On speaking of the objects to be proposed in the ventilation of mines, he says—

There are three principal objects which ought to be proposed in the ventilation of mines, he carry is the introduction of a sufficient quantity of air; its proper distribution; and the security of the arrangements to maintain this distribution and circulation. In the first place, the quantity of air to be introduced should be not merely that which is necessary barely to neutralise and carry off the explosive and noxious gases which are yielded under or the unusual emissions of them, which sometimes occur, and to dilute these to such an extent as to avoid danger; and at all times to afford a healthy atmosphere for the breathing of the workmen. In the second place, due regard must be given to the proper distribution of the air introduced, so that every part of the excavations of them may have its requisite circulation, and more be left stagnant for the accumulation of gas; to the conducting of that which is introduced, without waste, and without its coming in contact with the dangerous and nexious gases, to those parts where the men are engaged; and to the providing for its separate return or escape, or of that of any portion of it, carrying off with it these gases, as soon as it shall have become anywhere perceptibly loaded with them, without again entering the working districts, or coming in contact with the workmen or their lights. In the third place, the security and stability of the air-ways, their freedom from leakage, and strength to resist the shock of an explosion; and also the regular and equable action of the motive-power employed to produce the direction of the workings which are to be effected, and that of the surface of coal which will be exposed at one time in the excavatons; the state of these workings at different and future periods; and the number of workmen who will be employed.

The comparative value of the ventilating furnace and steam jets is then

The comparative value of the ventilating furnace and steam jets is then considered; and the author is evidently favourable to the latter, when it can be applied with facility, although he considers sufficient data has not yet been received to warrant arriving at exact conclusions. The velocities of the air currents, relative area of shafts and airways, with the volume of currents, are fully treated; and the report then brings us to the consideration of the causes of explosions in mines, and means to be adopted for their prevention. Of the causes, he says—

The immediate sources of explosions in mines may be divided into four classes—first,

for their prevention. Of the causes, he says—

The immediate sources of explosions in mines may be divided into four classes—first, the permanent yield of infinamenile gas from the whole coal, as exposed in the reads and workings, which is, in general, of a coastant amount; secondly, a sudden and large discharge from the whole coal, or from the roof or floor of the seam. This is unusual, and seldom occurs, except in newly-opened fiery seams. It may take place from the whole coal, as exposed in the workings, if it has not been previously drained by exploring and intersecting drifts; from the roof, or floor of the seam in the goaves, especially when these are first formed; from the coal, or roof or floor in the drifts, on approaching or striking faults, or the soft coal contiguous te faults, or when the pressure of inflammable gas existing in the seam, or in this seams in the floor or roof, produces sudden rupture and liberation. Thirdly, stagmant fire damp in the goaves of the mine, either on account of there being no channels for its outflow, or of the ventilation not being properly directed, or not sufficiently strong to carry the product of these goaves, on approaching their edges, into the return air-courses of the mine, without their mingling with the working air. Fourthly, isolated roads, or workings, in which fire-damp is liable to accumulate, if secluded from the general circulation of the mine.

The remedy for the first of these is increased ventilation; for the second, increased care in exploring drifs, great caution in working, and the use of the Davy lamp in all cases. For the third, the restriction, as much as possible, of the size of the goaves, and the use of the Davy, with return air-courses, which shall not mix with the air of the mine; and the fourth admits of such easy removal, that it is only necessary to allude to it. Although Mr. Blackwell recommends the Davy lamp, he cautions against blind confidence. He saws—

though Mr. Blackwell recommends the Davy lamp, he cautions against blind confidence. He says—

The examination of the various circumstances to the occurrence of which explosions can be traced, has shown that discharges of inflammable gas occasionally take place in mines which cannot be provided for by ventilation only; but, in such cases, the condition of the seam, and the amount of pressure under which the exudation of fire-damp occurs, will afford a degree of warning to the experienced eye, and suggest the propriety of obtaining the additional security storded by the use of the Davy lamp. Attention has also been drawn to the fact, that in pluta workings, or wherever goaves are in process of formation which yield fire-damp, and are in contact with the working sir, the necessity is already recognised, in well-regulated colleries, or adverting to the explicit such cases of the Davy lamp in those districts of the mine in which these circumstances exist. These facts certainly appear to direct our consideration to the practical security which long experience has proved to result from the careful use of this lamp, even under conditions of the greatest danger; and to the inquiry, whether its more general adoption, as the light employed in coal mines, would not be practicable, and prevent many explosions. In connection with this inquiry, it is destrable that two points should be kept in view. In the first place, the use of the Davy lamp must not be allowed to supersede goed and complete ventilation. In the second, unless this lamp is used with ears, and under strict regulations, it becomes a source of danger from the mistaken confidence it produces. A mosed system of lamps and naked lights in the same district of a mine, or the allowing of workmen to open their lamps at their own discretion, is extremely hazardous. With reference to the quantity of light afforded by the Davy lamp, I consider it to be sufficient for all but the thickest coal seams. Many collieries, both in the Newcastle district are now carried on excl

On the necessity of making the roads the men traverse the main at

The loss of life from after-damp is generally found to occur, to the largest extent, in the roasts which the main have to traverse on their way to the sharfs by which the mine is entered. This fact points out the necessity of making these roads the main intake air-courses, and of securing these thtake columns of air, both from the contact of fire-damp, and also from their being disturbed by the sheek of an explosion, until they reach those points in the mine where they enter the vorkings in which the men are engaged. It is only in case of the permanence of the arrangements made to establish this division, and to conduct columns of pure air to the extreme districts at all times, that the men can escape after an explosion, or that help can be speedily conveyed to the survivors, who may be suffering from it, but unable to effect their own escape. The system of using the main roads for return air-ways, in which the currents, after they have received all the explosive gases yielded in the mine, are brought or kept in contact with lights (and thus both propagating an explosion and cutting off every avenue of escape, since these roads are sure, under such circumstances, to be sweet by the fire, or speedily filled with after-damp), ought not to be adopted except in small collieries, in which inflammable gas insever seen. The foregoing considerations also point out the strong necessity for, two independent shafts is all coal mines; and of providing for the accessability of the down-cast shaft to all the men engaged. Subsequently to an explosion, it is generally impossible to descend or account of its being filled with the after-damp. If there be only a single shaft, and the division of the downcast and upcast current be of a slight nature, such as by a brattlee partition or pipes fixed in the shaft, the damage which is produced by an explosion generally prevents either escape, or the rentering of assistance to the survivors. The number of brattleed shafts is fortunately diminishing. Where they are still continued to be

After a review of the general principles which ought to be observed in all colliery operations, the report concludes with the following general precautions and remedies to lessen, or remove, danger in mines:—

precautions and remedies to lessen, or remove, danger in mines:—

The Davy lamp only should be used in pillar workings, where goaves, containing inflammable gas, are in process of fornation. It is desirable to use the lamp in exploring
drifts, and wherever the discharge of fire-damp visibly occurs under pressure, as in
newly-opened seams. Although the use of powder in mines, under this condition, would
lessen the security to be derived from an exclusive use of the Davy lamp, yet if careful
officers only were employed to fire shots, it would still afford comparative safety. It
should also be used exclusively in mines yielding fire-damp, is which the vantiliation is
dependent on the security of a bratticed shaft. A well-considered system of rules, and
general directions for the guidance of the workmen, is highly important to the security
of a colliery. These should include regulations for descending; for the examination of
the workings previous to their entry by the men, and during the working hours; and
also rules for the management of the Davy lamp. With a perfect system and efficient
ventilation, the appearance of inflammable gas in the six of a mine, except in the exploring drifts, may generally be prevented. In conclusion, it must be stated, as the result of the investigations I have made, that although many of the mines in this country
are conducted with all the precautions against accident which experience can suggest, or
the expeculture of capital afford, yet that there are numerous others in which the sys-

coffide shich date decay would be prevailed, if the shift out to the private local profits of the date decay would be provided to remove those defects in existing conditions, which can be clearly recognized in addition to the loss of life from accidents of a vicelant asture, the neglect which is the discount of the control of the cont on to the loss of life from accided a sufficient supply of the provide a sufficient supply of the provided supply of the idents of a violent natu s and mines in which lit of pure air, is productiv

near commence.

Now, these are just the points which it would be the duty of inspectors to see properly carried out; and if, after this highly efficient report, the Government still hesitate to bring forward a measure for the colliers' relief, the public will naturally believe that they have not the courage to propose a bill, but succomb to a few wealthy coalowners.

It is now some months since we directed attention to the mineral resources of Ireland, but we angur that, ere long, it will be our pleasing duty to record the extent of operations in the vast mineral tracts with which that country abounds—already sufficiently proved to warrant a large outlay of capital in prosecuting the several discoveries made, and which require only application to render productive. The subject of mining in Ireland now engages the minds of many, and attention once directed to the sister isle, we cannot doubt but that operations, on an extensive scale, will be carried on, attended with those beneficial results which, in so many instances, accompany a spirited outlay, with the application of talent and skill, and a due observance of economy. It will then be our aim to collate such information as may conduce to that grand object—the employment of the industrial peasantry; and, in our future Numbers, render those details which relate to the mineral products and the geological features of Ireland, with the results which have heretofore attended mining enterprise. The working of the new It is now some months since we directed attention to the mineral alm to collate such information as may conduce to that grand ouject—the employment of the industrial peasantry; and, in our future Numbers, render those details which relate to the mineral products and the geological features of Ireland, with the results which have heretofore attended mining enterprise. The working of the new measure for effecting the sale of encumbered estates promises well, as, in many instances, we doubt not, with fresh blood infused into the veins of Ireland, its mineral veins will not be neglected, but that, on the contrary, they will be effectively worked, yielding, as they are calculated to do, a vast increase to the national wealth. It is to be borne in mind that every ton of copper or lead ore obtained from the bowels of the earth is an addition to our wealth, and is, in fact, so much additional capital; while the amount expended in its extraction affords employment and the means of subsistence to thousands who might otherwise be starving, but who would willingly labour if the means were afforded them, or the opportunity presented itself. Let us, for instance, take Cornwall as an illustration of the great advantages attendant upon the working of her mines, looking at the question not simply as to the profits such operations may yield to the adventurer, and to the merchant, but the labour it affords to the industrious working classes, who, without such means, would be even in a more abject state than the pensantry of Ireland, were they to confine themselves to the immediate localities in which they are placed. The mining districts are generally situated in mountainous tracts, or barren soil, where nought is to be obtained from the surface, but the internal riches of which are productive of the means of labour—the employment of the miner, and the production, in many instances, of riches to the capitalis: as a return for his investment, which confers so many benefits, both directly and indirectly. The working of a mine, in the first instance, causes a demand for labour, employed, it is no

and philanthropy, not to advert to that genuine feeling we believe to be inherent in the hearts and minds of frishmen, to assist in the good cause, by contributing their meed of information, so as to enable the English capitalist to avail himself of the advantages held out; while, for ourselves, we can only repeat that, our object being once defined, we shall not lose sight of it; but trust that the little services we may render will be appreciated, and meet that encouragement and success which must be the warmest wish of all those who love mankind, and who are most naturally disposed to look to home and the sister isle—the benefits conferred on which are coequal with our own interests. We pause for the present, relying on our correspondents to lend their aid in enabling us to carry out our object with that success which one and all must desire—Caed mille failthe.

A return has just been made, by order of the House of Commons, of the drawbacks of duty granted upon timber used in copper, the lead, and other mines, in England, Scotland, and Ireland, respectively in each year, from the period of their first allowance to that at which they were finally discontinued, specifying in each case the full rate of duty payable upon such timber, the proportion, or per centage, of such duty granted in the nature of drawback, and the amount of such drawback in each year, also giving the dates and titles of the Acts of Parliament under which the said drawbacks were first allowed, and finally discontinued, and of any other Acts of intermediate dates, specifically applicable thereto. From these returns, we find that for the first three years the records were destroyed; that under the Acts of 1st and 2d Geo. IV., cap. 27, they amounted respectively to 31,5381, and 38,2511. In 1825, 1826, and 1827, under 6th Geo. IV., cap. 113, they were respectively 50,8811, 28,0131, and 26,8111. Under 9th Geo. IV., cap. 76, the drawbacks amounted to as follows:—

427,331 [1834 446,170 17,924]

And for the three last years of the drawbacks, under 3d and 4th Vic., cap. 12, and Treasury order, they amounted—in 1840, 51,5644; 1841, 62,5364; 1842,52,4904. By 5th and 6th Vic., cap. 47, the drawbacks were repealed on all timber and deals—the duty whereon was paid after 10th October, 1842. The duty on balk timber from foreign countries is now 15s. per load of 50 cubic feet—less than half its amount when drawback was allowed; and on that from British possessions the duty is only 1s. per load. The arrears allowed, after the 10th October, 1842, when the drawback ceased, amounted to 42,0584; and the total drawback of the 10 years ended 1842, amounted to 597,6034, or an average of 59,7604 per annum.

Our contemporary, the Times, in yesterday's impression, in noticing the report of the directors of the NATIONAL BRAZILIAN MINING ASSOCIATION, after showing the great increase in the gold returns which had taken place, between 1845 and 1849, says that "the other points of working in Cocaes, Terra Cahida, and Cuiaba, it is stated, exhibit favourable indications; but, although the proceeds of gold are calculated to have reached 7425L, the undertaking is still worked at a loss." Now, this is not the fact; for although such observation might have applied to the workings in the three first quarters of lest year it does not at negactic for shout Oct lest the vation might have applied to the workings in the three first quarters of last year, it does not at present; for, since about Oct. last, the adventure has been working at very considerable profit. On reference to the report, which will be found in another column, it will be seen that, while the three first quarters of 1849 produced 53, 62, and 94 mks. respectively, the fourth quarter's produce was 165 mks., and the returns have considerably more than paid the costs since. From the immense mass of stone laid open in Cuiaba, from the fact that the returns of this would produce a profit of 100 per cent. on the cost, and the agents at Rio having had instructions to supply funds to any amount on which profits can be realised, we hope shortly to see these mines assume a high position, and pay good and regular dividends. The prospects in all the workings are now of an interesting character. of an interesting character.

We think there can be but one opinion as to the relative position in which the iron manufacturer and the operative are placed to each other, or of the duties to be performed, and concessions which should be mutually exchanged to secure the welfare of each. When prices of iron range high, and the master manufacturer is reaping large returns, and realising immense profits on the capital employed, it is but just and right that the collier and ironstone getter should, to some extent, participate in their employer's presperity, by being in the receipt of full and fair wages. But, on a reverse of fortune, when prices fall lower and lower, until the capitalist, no longer realising a profit, is probably paying for labour out of his capital, it then becomes as much a duty of the operative to submit to such equivalent reduction in his wages as will, at least, lessen the current loss upon the works. Yet it is under precisely these latter circumstances that the men still hold, out on strike in the Ayrshire and Lanarkshire collieries. The relation between employer and employed must be, to a great extent, governed by the relative proportions of supply and demand, which proportions naturally bear apon the cost of the raw material, the price of the finished fron in the market, and the equitable share to the collier, as wages for the labour bestowed. The rate of wages which the colliers are now on strike for was conceded to them in February last, on the occasion of a sudden advance in iron from 43s. to 50s. per ton, previous to which advance the rate was about 2s. 6d. per day, but the work confined to a much smaller quantity than might actually have been performed, being not above seven hutches put out, while 10 or 11 was formerly considered a fair day's work. This advance was also made on the condition that, when iron should fall to 45s. per ton, the previous rate of wages should be reverted to. Iron did fall in March and April last as low as 45s., and the ironmasters, therefore, required the men to fulfill their part of the a We think there can be but one opinion as to the relative position

to the old wages. This they refused; the masters were firm, and the turn out was the consequence.

It would be well for the misguided men who have already had proof of the good faith which regulates the actions of their employers to consider well their position: 20 years since, the iron manufactured in Scotland was only about 90,000 tons; at the present moment it is upwards of 600,000 tons, or sevenfold. Notwithstanding the fact that nearly one-half of the furnaces in Scotland are blown out, the stocks on hand are equal to the entire make for the past half-year. This large stock has accumulated from speculations in pig-iron, and it is only from such speculations that the ironmasters have been enabled to increase their stocks to an extent far above the capabilities of their own capital; and nothing can tend to greater irregularities in the trade, and, consequently, want of confidence and injuries to the interests of both masters and men than these strikes, the one in question not having even the plea of injustice on the part of the the one in question not having even the plea of injustice on the part of the masters to support it. In Monmouthshire the cold proprietors have given notice of their intention to reduce the price for cutting coal; and if the statement put forth by the colliers' committee be correct, certainly without sufficient justification; and should a strike take place in consequence, we should have cause to sympathise with the men; while in the case above referred to we think justice is on the side of the masters.

We have inserted in another column a statement from a correspondent of an extraordinary outrage committed in the neighbourhood of Holywell, Flintshire, by a gang of discontented miners, who are endeavouring to compel the whole of the mine agents in the district to reduce the hours of labour from eight to six hours. We have received communications from other correspondents, adventurers in some of the mines, and it is much to be regretted that fears are entertained that the mines of Flintshire are degenerating from that prosperous condition, and the miners from that peaceable conduct, which, for so many years, has characterised both. A spirit of discontent prevails in consequence of new adventurers discouraging the attempt at a reduction of the hours of labour, which has gradually dwindled down from twelve hours to eight, and at many We have inserted in another column a statement from a corres

of the mines only six hours; thus leaving six hours for other occupations. A mob of probably 1000 miners were collected from the different mines by a few leading riotous men, and proceeded to a mine near Holywell, and, to the disgust and abhorrence of all who have been made acquainted with the fact, ill used, and drove from his home, an unoffending agent, as stated in the notice referred to, who was only doing his duty by carrying out his employers' instructions—that of keeping the men at work eight hours per day, in conformity with the working rules of nearly all the mines in the kingdom—their object being to overawe the whole mines of the district into subjection, and to compel the adventurers to introduce a system of six instead of eight hours' working. Anxious as we ever are for the amelioration of the condition of the miner, we cannot help expressing, on this occasion, our dissatisfaction and regret at this attempt, even had it been made without the commission of any outrage on the liberty of the subject. Eight hours per day is by no means a hard task for a miner; and tributers, it is well known, in Cornwall, labour eleven and twelve hours a day, and would work longer if the agents would permit them. No mine would pay sufficient if the men worked only aix hours per day; and, by these rash proceedings, the misguided men are opposing their own true interests; their efforts must, in the end, prove futile; and fix a brand of degradation on their general character.

From parochial statistics we find that the average life of the miners in the neighbourhood of Holywell is of less duration than in other mining districts; and this circumstance, coupled with the fact of their working only six hours per day, would appear most paradoxical, were we not also apprised of another fact, which at once defines the motives for the present attempt to lessen the hours of labour. One man often works at two mines in the same day—six hours as a daily miner at one, and six hours in another, on an annual bargain. The really working

attempt to lessen the hours of labour. One man often works at two mines in the same day—six hours as a daily miner at one, and six hours in another, on an annual burgain. The really working time, however, underground does not exceed four hours and a half at each, and the chief cause of the injury to their constitutions is that, being paid by the yard, and having so little time to get anything like a good day's work done, they over exert themselves, and, when in a state of perspiration, throw themselves for rest on the wet rocks, which they have just broken down. It cannot be allowed that the peace of a whole district is to be disturbed in the way we have recorded; and, if further disturbance takes place, it is to be hoped the magistracy will be on the alert, and have sufficient force at hand to quell their turbulent dispositions, restore peace to the district, and secure the just rights of capital and industry.

We are well pleased to find, from a paragraph inserted in another column, that Cameron's Coalbrook Steam-Coal Company promises success at an early day—the line of railway being in the course of formation, and which will, doubtless, be completed within four months from the present time; while the works are, we are given to understand, progressing satisfactorily. The directors may be said to well deserve support, were it only on account of their indefatigable labours and perseverance in carrying out a project, which now, in some measure denuded of its excrescences, will, doubtless, yield a fair return on the capital invested, although it must be admitted that in the early stages of the operations of the company certain difficulties had to be overcome, among which was the large number of shares reserved by the lessor, free from any call, and also the payment of a considerable sum for the property. This, however, has since undergone a modification, which, we trust, will be found in the end not only advantageous to the lessees, but to the found in the end not only advantageous to the lessees, but to the lessor, and that with "a long pull, a strong pull, and a pull altogether," we shall find the adventure not only weathers the storm, but yields to the shareholders those returns which their confidence and perseverance so well merit.

## THE IRON DUTIES OF UNITED GERMANY.

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We have received the following communication from a valued correspondent, well acquainted with this, to the British Iron Trade, highly important subject:—"You are, no doubt, aware that the tariff of the Zollverein is now undergoing revision, and that the several states will send plenipotentiaries to Cassel on the 1st of July next, to determine upon the charges. The mannfacturers are urging upon the Government an advance, even upon the present enormous duties on metals, and the agriculturalists and the trading community are (although, I fear, far less active) pressing for the necessity of a more liberal tariff. The principal point in dispute appears the iron duties, and all the weight and influence this country could give should be thrown in the scale in favour of that party and those classes who urge upon their Government the reduction of duty on an article of such universal utility as iron. It may not be known to you that the defunct Frankfort Parliament appointed a committee to investigate and report suggestions for a new tariff, applicable for "United Germany;" and the report of this committee (issued only for private circulation) I have read, and I take the liberty to send you a translation of that portion treating upon the iron duties, as it may be interesting to see that a very strong party in Germany is favourable to the reduction of duty on raw materials that press upon manufacturing industry. The present depressed state of the iron trade makes the subject of the duties levied in foreign states of peculiar interest; and if, upon perusal of the enclosed, you find it of such a character as would interest your readers, I shall be happy to furnish you with such further information and translations as you may with to receive a translations as you may with to receive a translation as a you may with to receive a translation and translations as you may with to receive a translation and translations as you may pressed state of the fron trade makes the salpect of the duties levied in foreign states of peculiar interest; and if, upon perusal of the enclosed, you find it of such a character as would interest your readers, I shall be happy to furnish you with such further information and translations as you may wish to receive."—We regret that want of space prevents our inserting the translation in our present Journal, but which shall appear in our next.

The American Import Dury on British Iron.—The New York correspondent of the Times says.—"It will be remembered that a communication was lately addressed by her Britannic Majesty's Minister at Washington to the Secretary of State, expressing a hope that no augmentation was contemplated of the present import duty on British iron. This remonstrance was forwarded to Congress, and an attempt was made, a few days since, to refer it (as such questions usually are) to the Committee on Manufactures. An amendment to this motion was, however, carried, which is important, as it places it in the hands of the Committee of Ways and Means, thus indicating, with tolerable certainty, a report unfavourable to any additional protection of domestic iron-masters, while the national finances are in so flourishing a condition."

THE SULPHUE TRADE OF SIGHX.—We noticed, in our last Number, that the King of Naples had authorised the burning of sulphur in Sicily throughout the year (this, we presume, means for the production of sulphuric acid, and not the destruction of the sulphur); the consequence is, that the quantity obtained, during the past six months, is far short of the demand, or the usual supply, and, consequently, high prices have been obtained. The whole stocks are in the hands of a few wealthy merchants, who have contracted to supply Russia; and several large cargoes have lately been shipped for Odessa.

SPANISH STEEL.—A large quantity of the finest description of Toledo stee as arrived at Liverpool from Cadiz, consigned to an extensive firm. This is a second or third consignment to that port during the year, and is rather aportant, as, under the old Spanish tariff, it was prohibited.

Mining in Norway.—The copper mines of Seteirdal, near Christiansand, which have produced large quantities of bunt kupfer erz and yellow pyrites, first discovered in 1658, worked by the Danes, subsequently abandoned, and resumed by several parties, with various successes, are about to be again worked. elves in the spe

Foreign Railroads.—The Norwegian Government have, we understand dispatched Amtmand Monichen, the governor of Aggershus, in conjunction with the concessionaire of the projected line in that country, which was in spected in 1846 by R. Stephenson, Eaq., M.P., and surveyed in the following year by Mr. John England, to endeavour to form a company for its working A minimum rate of profit is guaranteed by the State, and the undertaking may be considered a bond fide affair; whether the profits will be so large as anticipated in so thinly populated a country remains, however, to be seen. The proposed capital, when first projected, was 500,000, sterling. In the event o non-success in the present case, the capital will be, probably, raised in Christiania, ofther by subscription, or loan on Government security.

MODELS OF BRIDGES.—Our respected correspondent, Mr. Thomas Motley, Journal some weeks since, which are now fitted up in a room at our offices, and we assure our readers are well worthy an inspection; while we shall feel pleasure in showing them to any parties who feel interested in the important science of bridge erection. We have also a splendid design, 14 ft, long, for the proposed gallery the whole length over Waterloo-bridge. The models of the bridges have already given great satisfaction to many engineers and scientific parties who have already inspected them. has at length completed the models promised in a communication in the Mini

### COATING IRON WITH GLASS

From the great tendency to oxidation, and consequent decay which iron in every shape, of rolled or wrought manufacture, has inherent in its nature, it has ever been the practice to cover it with an artificial coat, to preserve it from the destructive effects of the elements, and within comparatively a few years past many plans have been adopted for this parpose. Various paints and pigments, sine, enamel for calinary utensils, and numerous other appliances, have been laid before the public, each perhaps good in its way, but neither of them applicable as a universal coating for iron under all circumstances, or which will be found sufficiently economical in numerous cases. At the soirce of the President of the Institution of Civil Engineers, last week, some specimens of iron manufacture were exhibited, coated with glass, from the Smethwick Iron works, of Messrs. Selby and Johns, near Birmingham, and which would appear to be the very desideratum so long sought for. There were three ornamental dinner plates, three pieces of iron tube, a frying-pan, and a piece of corrugated iron roof, all covered with clear transparent glass, and which were viewed with much admiration by the visitors. We have since availed ourselves of the opportunity of inspecting a much greater variety of this unique material, at the London establishment of the patentees, in Upper Thames-street, which is undoubtedly deserving of public attention, as likely to prove of much importance, and open a still wider field for the iron manufacture, to more ornamental and costly appliances, than has hitherto been the case. In the process of coating plates, corrugated or plain roofing, tiles, tubing of all kinds and dimensions, frying-pans, gridirons, saucepans, kettles, cauldrons, or boilers in lieu of coppers, and a host of other implements, domestic, agricultural, and manufacturing, the article is first thoroughly cleansed in an acid solution, to free it from every particle of gresse, similar to the preparation, over which is laid a coat of glass, ground to a fine powder. The article is then introduced into a furnace of pecu in every shape, of rolled or wrought manufacture, has inherent in its nature, it has ever been the practice to cover it with an artificial coat, to preserve is transferred to the kiln and fixed; when cold, another colour is added, again fixed, and withdrawn; and so on until the design is complete. From the inspection afforded us, we have no doubt whatever that, as by practice the colours become improved, and full command over their application obtained, this really elegant invention will be applied to numerous purposes at present probably scarcely thought of. To wash-stands and toilet furniture it would be most applicable, as also for sideboards, chefoniers, door-plates and panels, fire-grate ornaments, and to numerous other purposes in decorative building and architecture. For plates for the names of streets it would be almost indestructible, and might be brought into use with much effect for shop front architecture. We were shown, among other specimens, a small door panel, with a bunch of foliage in the centre, surrounded with an arabesque border to represent gold, which had a very pleasing effect. The invention is another step onward in the progress of art and science, and is of much interest.

### GAS FROM THE DECOMPOSITION OF WATER.

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The great problem of the economical decomposition of water, for the purposes of artificial illumination, appears to be much nearer solution in America than Mr. White, or any of his competitors in this country, have been able to achieve, and by a far more cleanly, delicate, and scientific process than by furnaces, retorts, bits of iron, pitch, tar, oils, &c. It is a well-known principle—in fact, forms almost an everyday experiment of the lecture table—that a current of electricity, whether galvanic or frictional, on passing through water, has the power of decomposing it, giving out oxygen at one pole, and hydrogen at the other; and we learn that a Mr. Henry M. Payne, of Worcester (U.S.), has ingeniously taken advantage of this principle in the production of hydro-carbon gas, for the purposes of both lighting and heating dwellings. We are not exactly let into the secret of the means employed for generating the current of electricity; but as it states that a weight of 67 lbs., falling 9 ft. per hour, will produce 1000 ft. of gas, we presume it to be frictional electricity, particularly as it appears that the apparatus for lighting his own dwelling is contained in a box, 18 in. square and 8 in. deep. From this box, two flat copper wires are conducted into the decomposing jar, containing the water, forming the two poles of the battery; and, as the pure hydrogen escapes, it passes into a carbonising vessel. The process of carbonising we are not made acquainted with; but it is stated to be so far from costly, that carbonising gas for three burners for a week amounted only to one cent. It appears that, on the 23d April last, Mr. Payne had his residence brilliantly illuminated, for the purpose of exhibiting his complete success to his friends and many gentlemen connected with gas companies, scientific bodies, &c. It is stated that, although only one small burner was employed in each room, yet the light was dazzling, perfectly white, and so pure, that the most delicate shades of blue

IRON, HARDWARE, AND METAL TRADES' PENSION SOCIETY.—We beg to call the attention of our readers to an advertisement which appears in another column from this society. We are happy to find that their funds are in such a position, as to have enabled them to elect three additional pensioners at their general meeting last month. Another election, we observe, is announced for November next; the number to be elected will depend upon the future liberality and exertions of the friends of this charity. In looking through the list of subscribers, we notice the absence of some of our large ironmasters, who, we think, ought to stand in the foremost ranks of such a society as this. Mr. G. B. Thorneycroft, at their late anniversary festival, pledged himself that he would stand by the society heart and hand, and that he would take especial care to have this matter brought before the class we have just alluded to. Mr. Thorneycroft, we all know, will perform whatever he may promise, and we look forward with much interest to the result of his benevolent exertions.

CAMERON'S COALBROOK STEAM-COAL AND SWANSEA AND LOUGHOR RAIL-COMPANY.—The directors have just issued a circular to the shareh high they state that, since the last meeting, they have steadily a in which they state that, since the last meeting, they have steadily and determinately followed out the course they then proposed, as to the formation of a railway to the port and docks of Llanelly. That these matters have at length been brought to a satisfactory conclusion, the contract for making the line has been signed, the works are now progressing, and that the railway will, by the terms of the contract, be handed over to the company complete in less than four months from Monday last; they, therefore, after indefatigable labour, ask for increased confidence from the shareholders, and call upon all in arrear to pay their calls immediately. Unless they do, they will feel it their duty, in justice to those who liberally come forward with means, to adopt legal measures to inferce payment.

MINE RALS FROM NATAL—We have, within the past three months, severa times alluded to the rapidly-advancing colony of Natal, on the eastern coast of Africa, and to the measures being adopted by the Natal Company to forward and facilitate emigration thereto. In addition to its salubrious climate, and prolific soil, we have said that minerals had also been found—indications having been seen of iron, copper, coal, and plumbago. It is with much pleasure we inform our readers that we can bear testimeny to the two latter descriptions, as far as assurances can be relied on. Mr. Christopherson, of Pietermarisburgh, has forwarded us a specimen of anthracite coal from Natal, equal in appearance to the best of our South Wales deposits, and a piece of plumbago, also from the colony—the latter not being of a very good cobur for pencils, but would most probably answer perfectly well for crucibles and frebricks, if plentiful. At all events, these symptoms are highly encouraging.

HISTORY AND MANUFACTURE OF GUNPOWDER.—No. VIII.

Ohemias have been aware for many years that nitric acid produces a great change in the nature of vegetable tissues. Dr. Ryan mentions having a manufacture of the control o tles containing materials giving off nitrous acid fumes, as sometimes an explosion is the result." In the year, 1833, Braconnot gave an account of a new substance, which he named xyloidine, from the Greek word for wood, because he procured it by the action of concentrated nitric acid upon sawdust, linen, starch, and other similar substances. It may be readily prepared by boiling starch a few seconds in concentrated nitric acid. The

prepared by boiling starch a few seconds in concentrated nitric acid. The xyloïdine is precipitated by pouring this mixture into cold water, and can then be collected and dried. From the Comic Rendus of the Paris Academy of Sciences, we find that this substance engaged the attention of Pedouse. He observed that it is very combustible, that it fires at 356° Fahr., burning with great rapidity, and leaving scarcely any residue. This property led him to an experiment, which he thought would be capable of application, especially with artillery. He soaked paper in nitric acid, of the specific gravity of 1.5, for two or three minutes; then withdrawing and washing it, he procured a kind of parchment that is impermeable to moisture, and very combustible. It appears to have been his idea, that this could have been used in war in place of gunpowder. Dumas seems to have been the next to investigate this curious substance, and mentions the application of pasteboard and paper prepared with nitric acid to the manufacture of fireworks. He proposed the name "nitramidine" for this substance.—Traité de Chimie appliquée aux Arts, 1843, p. 90.

The next step in the investigation and application of these substances obtained great publicity, and excited much interest. In the year, 1846, Prof. Grove brought to the notice of the public, in behalf of its discoverer, Prof. Schönbein, at the meeting of the British Association, at Southampton, the preparation know as gun-cotton. The manner of preparing it was not at that time stated, but a patent was taken out for it on the 8th of October, 1846, and enrolled 8th April, 1847. It was entitled—"Patent for improvements in the manufacture of explosive compounds," and the following is given as Prof. Schönbein's method of making the cotton. A mixture is prepared, consisting of sulphuric acid, 1°45 specific gravity, 3 parts; nitric acid, 1°45 to 1°50 specific gravity, 1 part; and allowed to remain one hour. It is then to be partially dried by pressure, and to insure its prepared firedom from acid

170° Fahrenheit. The nitrate is stated in the specincation has to be able to the littly necessary.

M. Schönbein began the experiments that resulted in the production of gun-cotton on sugar, which he reduced to a fine powder, and made into a thin paste, with a mixture of one part nitric acid, of specific gravity 1°5, and two parts sulphuric acid, of specific gravity 1°5, at 36° Fahrenheit. This, on being well stirred, did not give out any gaseous exhalation. After being well mixed and stirred, the viscous mass was separated from the acid, well washed with boiling water, to render the separation perfect, and afterwards deprived of as much water as possible at a low temperature. The substance thus produced was compact and brittle. It could be moulded like jalap resin when warmed, and assumed a silken lustre. It was semifluid at 212°, gave off red vapours at a higher temperature, and, when heated still further, deflagrated violently, without perceptible residue. Parsuing his experiments on other organic substances, he made his principal discovery of the cotton in 1845; and though he was partially anticipated by Braconnet and Pelouse, it is to his researches that any practical discovery of the cotton in 1845; and though he was partially anticipated by Braconnet and Pelouse, it is to his researches that any practical cool has been arrived at. The explosive compound prepared by cipated by Braconnet and Pelouse, it is to his researches that any practical good has been arrived at. The explosive compound prepared by M. Schönbein, has been named pyroxyline; and, although it is very like xyloïdine, yet it is not that substance, as the following characteristics of each sufficiently show:—

PREOXILINE.

PREOXILINE.

Oluble in water; nearly so in alcohol, and still meaning the start of ether, and 1-10th with a small quantity of alcohol, and still meaning the start of the star

Dissolved by strong sulphuric acid, only
when aided by heat.
Not acted upon by fuming nitric acid.
Dissolves in a hot solution of potash.

Soluble in fuming nitric acid.
Dissolves in a boiling solution of potash. Mr. J. H. Gladstone, in Philosophical Magazine (Supplement), Dec., 1847.

Cotton converted into pyroxyline increases greatly in weight. In one instance, 38:38 grains became 66:84 grains; and in another case, 59:3 grains gave an increase of 43:7 grains. This gun-cotton resembles the physical properties of the original cotton very closely, and explodes at about 370°, without producing smoke or leaving any residue. The explosive point of gunpowder being 600° Fah., if a little be put on a sheet of writing paper, and a small piece of gun-cotton laid lightly on it, and the whole held about a foot above a lamp or candle, the cotton will explode in a short time, but the nowder will remain the combustion of the cotton being to varied.

a foot above a lamp or candle, the cotton will explode in a short time, but the powder will remain, the combustion of the cotton being too rapid to allow of the powder being raised to the proper temperature to ignite.

The conflicting statements of different authors as to the amount of this increase, led Mr. Gladstone to try the effect of difference of time of the immersion, but found no variation; but he met with varied results by using different portions of the acid mixture employed. With one measure of nitric acid, and two sulphuric acid, he observed increases of 56.84, 59.93, and 70.6 per cent. in three several experiments. In trying to make out the cause of these discrepancies, he immersed the cotton in large quan-

59-93, and 70-6 per cent. in three several experiments. In trying to make out the cause of these discrepancies, he immersed the cotton in large quantities of acid, and the result was an increase of 73-1 per cent.

He next employed a quantity of acid that was merely sufficient to wet the cotton thoroughly. The increase in this case was only 51-74 per cent, and there were evidences of the existence of organic matter in the acid residuum, which was not the case when there was a larger increase of weight. Mr. Gladstone considers that the cause of the small increase of weight, when but little of the acid mixture is present, is owing to a partial destruction of the cotton by sulphuric acid through the deficiency of nitric acid, which shows the extreme caution that is necessary to prepare this acid, which shows the extreme caution that is necessary to prepare this compound in a proper way. M. Schönbein's method of employing 3 parts sulphuric is superior to the above, the increases being 75-20 per cent. in one instance, and 75-47 in another; for it is easier to obtain sulphuric in one instance, and 75.47 in another; for it is easier to obtain sulphuric acid than highly concentrated nitric acid. In preparing gun-cotton, it is necessary that the nitric acid should be of sufficient strength, otherwise xyloidine will be formed. Of specific gravity 1.5, with 1, 2, or 3 parts of sulphuric acid, will do. But the last proportion of sulphuric acid is best, for the reasons just given: 3 parts of Schönbein's gun-cotton produce the

sulphuric acid, will do. But the last proportion of sulphuric acid is best, for the reasons just given: 3 parts of Schönbein's gun-cotton produce the same effects as 8 parts Government gunpowder.

Pyroxyline can be exploded by electricity in the same way as gunpowder, but casier, because the temperature at which it explodes is only about 400° Fahr.—that is, 200° less than gunpowder. Some specimens of guncotton give off during explosion large quantities of nitric acid vapours, probably owing to free acid not being properly washed out of the compound. Dr. Ryan proposes to remove this, by rinsing the cotton before drying it in water containing a small portion of ammonia. The falminating power of the cotton is increased by using nitric acid of good strength. Thus the acid of specific gravity 1.45 produces a weaker explosive power than of specific gravity 1.50, the fibre being acted upon less by a strong than a weak acid. The cotton becomes a gelatinous mass, with acid of specific gravity 1.37. By employing a weak solution of chlorate of potash, pyroxyline acquires the property of exploding by percussion. Pyroxyline may be distinguished from other cotton by its harshness, and a decrepitating sound after being pressed. When properly prepared, the cotton undergoes no change in colour, but by improper manipulation it sometimes becomes yellow.

The electric condition of proxyline is also very peculiar. On passing

a portion between the finger and thumb, it will be found to adhere to them with considerable tenacity, by which it is distinguished from common cetton wool. A strip of paper prepared in the same way as cotton, developes electricity by rubbing in the same way, and is attracted and repulsed by other bodies, according to their electrical condition.

Portsmouth, June 4.

ERRATA. -- In last week's paper, lines 34, 36, and 40, for "nitrogen" read "oxygen.

### MINING IN SPAIN .- No. II.

Amongst the mines which give to these two "barancos" a foremost lace in the district, may be enumerated La Regla the minerals of which are equal to those of the leading mines; San Geronimo, La Virgin del Pilar, La Suerte del Hombre, Los Cuatro Mudos, La Virgin de los Remedios, La Traicion, La Chacona, and La Angelina; all situated on a lode equal to the best mines of Almagrera, and ranging from 3 to 6 feet in breath.

In the baranco of La Torre, the only mine opened, is that of Catalin

on a lode equal to the best mines of Almagrera, and ranging from 3 to 6 feet in breath.

In the baranco of La Torre, the only mine opened, is that of Catalina,—the features of which correspond with those of the two preceding. The baranco of La Sima, in which the ancients have also left traces of their works, contains, amongas others, the mine of Los Angeles, which produces a mineral of great value, but hitherto in small quantity; as the works are not fully developed, and the lode does not yet exceed 2 R. in breadth.

The baranco of Pinalbos de Tierra, and of El Mar, contain good mines, and peculiarly well situated for working. In the latter especially, is the Mine of San Erancisco, which, at no great depth, has disclosed a rich lode, composed of iron, barytes, and steel-grained galena, with a breadth of from 3 to 7 ½ R. The ancients worked here also; but only to the depth of some 30 fms. In the baranco of Pinalbo de Tierra, where, after the mines of Jaroso and La Raja, the works have been carried on with most vigour, are to be distinguished those of San Antonio, Los Anchurrona, El Criadero, and Nuestro Senora de Gracia. The first of these, directed by an English mining engineer, produces a very rich steel-grained galena, mixed with iron and barytes, in a vein of 3 ft. in breadth. The present workings are connected with a lode which has led to the discovery of considerable workings, of Roman origin, as appears from the utensils and lamps that have been found in the galleries. Los Anchurrones, or Nuestra Senora de Pledad, yields a steady produce of the like mineral as the former, though still richer in silver and lead. El Criadero is a flourishing undertaking, with a lode of the breadth of 4 ft. Nuestra Senora de Gracia, presents the like indications as the foregoing, but has not hitherto given such great returns. In the remaining barancos, or gorges, in which the works are more or less attvanced, the minerals are almost identical with those are returned to the such produces of the service of the service of the s

These three phases in the ores of Jaroso, manifest the variableness of its yield, the fluctuations in its quality, and, at the same time, the accuracy, to a certain degree, of the calculation, by which two-fifths of the general produce, are assigned to the first and second-class ores, and the remaining three-fifths, to the third.

currey, to a certain degree, of the calculation, by which two-fifths of the general produce, are assigned to the first and second-class ores, and the remaining three-fifths, to the third.

In order to ascertain the not annual returns of these mines, and establish a balance between receipts and expenses, it will be necessary to follow one of them in its operations during the mining year of 300 days—say, that of Observacion, as being an average one, and neither the best, nor worst in Jaroso. Thus, from the 1st of Jan. to the 31st of Dec., 1847, the Observacion yielded 86,029 quintals of mineral, which, valued at 32 reals the quintal, represents the sum of 29,730.; expenses for the same period, as appears by the books of the owners, 5753.; which, dededucted from 29,730., leaves a balance in favour of the mine of 23,977. It is to be observed, however, that this balance represents only 10 months' work, as the filtrations of water into the deepest shafts, paralysed the works during the remaining two months of that year.

Such was in 1847, and such is still, more or less, the general state of the works, in the principal lode of Almagrera. It is probable that the steam-engine, now about to be applied to unwatering the deep levels, will materially increase their future returns; and this without a proportionate increase of expense; as with the steam-engine, other improvements must naturally suggest themselves, tending to simplify some of the present operations, and place them on a still more economical footing. Should such be the case, no part of the world will present an example of equal riches, produced so cheap, and with such facilities.

Among the mineral hills, next in repute to Almagrera, are those of Mazarron and Lomo de Baz. Mazarron is situated midway between Aguilas and Carthagena, at a distance of five leagues from each, forming the centre of one of the many undulations of the great bay, which embraces the two extremes of Carthagena and Almeris. It is of volcanic origin, and presents two distinct classes of or

ing for its base, silex and magnesis, and containing a cas, or silver per cwt. Mazarron was worked by the Romans, who have left traces of con siderable operations, both in mining and smelting. It is a very interest ing locality, containing, moreover, several other mineral sub-

commercial value.

Lomo de Baz, at a distance of three leagues both from Aguilas and from Mazarron, forms a group of hills, the central part of which, called Cuesta de Goy, contains the works most advanced. The country is transition, and the mineral, argentiferous galena, in which the lead prevails, but very pure and easy to smelt. The leading mines in this district are those of El Trobador, Los Labradores, Las Clibeles, and Santa Olalla, and their produce ranges from 28 to 45 per cent. of lead, and from 1½ to 3 ozs. of silver per cwt. Nothing but capital and skill are wanting, in these localities of Mazarron and Lomo de Baz, to render them the centre of very flourishing enterprises.

Mazarron and Lomo de Baz, to render them the centre of very nourisating enterprises.

One of the immediate effects of the discovery of the mines of Almagrera, was the establishment of smelting-works, which were forthwith erected in various parts of the adjoining coast, but more especially in the vicinity of Aguilas. At first, the number of these was very considerable, but they have since diminished, until they are now, on a level with the supply. At the outset, inexperience led to indisponsable, though costly, mistakes, Nothing was known regarding the construction of furnaces, the proportions of fuel, appropriate fluxes, the management of the furnaces, nor o

the mode of separating the lead and silver. In short, the first rudiments of the art of smelting had to be learnt; until it was slowly brought, by dear-bought experience, to the point it has now attained. The first idea was to seek the aid of foreign smelters; but these, after many attempts, were too partially successful, to give satisfaction. It was then that the Spaniards, left to their own resources, grappled stoutly with their difficulties, studying the characters of the minerals, and seeking the fluxes most appropriate to each. They laboured hard, ere they could obtain a precipitate from their furnaces, free from alloy, and regular in its course, at the least possible cost. They became assayers and refiners, until, by constancy, and that patient perseverance which distinguishes the Spanish character, they have not only attained their end, but have reached a degree of perfection, that entitles Aguilas, at this day, to be considered a practical school of metallurgy, unsurpassed by any other, for the simplicity, economy, and efficiency of its system. Amongst the successive smelters of this school, may be mentioned Don Nicolas Toledano, Don Pascual Ayuso, Don Pedro Jacinto Gris, Don Maria Torre y Cela, and Don Antonia Garcia Moreno, all of whom, in the order here cited, have contributed to its success; and it is, at the present day, highly interesting to observe rude villagers, executing the most delicate smelting operations, under the guidance of their self-taught masters; who have, moreover, materially contributed to their country's prosperity, by means of establishments that do them honour, as models of skill and ingenuity.

The principal smelting-works in the vicinity of Aguilas and of Almagrera are those of La Virgin del Pilar, La San Josè, La Concepcion, and La Carmelita; the two first in Aguilas, the third halfway between that town and the centre of mining operations in Almagrera, and the fourth at Villaricos, on the confines of the Almagrera mineral district.

La Virgin del Pilar is under the personal

inued in next week's Mining Journal.]

# Original Correspondence.

### THORNEYCROFT'S IMPROVEMENTS IN IRON FOR RAILWAY PURPOSES.

SIR,-As I never did write or publish an anonymous letter in my life, do not think I am likely to begin now, for the purpose of defending a rinciple which I know to be based so firmly on the rock of truth, that I defy all the anonymous writers who may come forward to disturb it. The facts are these—I have made a rail which, in the wearing part, is of an hofacts are these—I have made a rail which, in the wearing part, is of an homogeneous substance, as much so as if it were made of cast-iron, or cast-steel, and is, therefore, perfectly free from lamina. If lamination is the great evil so much complained of, then to get rid of it altogether must be a great improvement. To give the most convincing proof of the superiority of this rail, I got permission 'from Mr. Brunel to have them tried in the most severe place upon the Great Western line. They have now been down nearly three years, and are little worse than when laid down. No rails have ever stood so long in the same situation, although the best rails they could purchase have been tried in the same place; therefore, the comparison of the "Paid Railway Official," alias: "Railway Man," does not bear upon the point. His remark, "that the report of the engineer-in-chief would be a thousand times better than Mr. Bowman's," cannot be questioned, and I can assure him I would by no means undervalue such a report, but quite the contrary; but as that gentleman has several other make of rails laid down for trial besides mine, I should be guily of great presumption if I were to ask him to report upon my rails, until he has had a fair opportunity of ascertaining the relative merits of each make now under trial. When he has fully satisfied himself upon this point, I have no doubt he will give his opinion freely and candidly, as I believe his only object is to ascertain which is the best rail, and which it will be the interest of the railway companies to use. I would now observe, that it may not always follow that a good fair price will procure a good fair rail; yet it certainly will be the case where honest and honourable men are dealt with; and bad as our reputation may be in this respect, there are to be found many men in our profession who would scorn to sell one quality and deliver another; but if there was not one honest man left among us, a test may and can be applied, which would prevent any deception being practised in mogeneous substance, as much so as if it were made of cast-iron, or caststeel, and is, therefore, perfectly free from lamina. If lamination is the

which he has ordered them for his own line; and we are now making them for him.

I have frequently made certain statements respecting the quality and durability of these antilaminating rails; and I have also engaged Mr. Bowman, one of the best practical engineers I can find, whose integrity is unimperchable, to watch the progress of the wear of these rails upon the several lines of railway where they are laid, and to report exactly what he finds to be the fact, and nothing more; and, so far as he has gone, I am quite willing to stake my reputation, or subject myself to any reasonable sacrifice, in a pecuniary point of view, in proof of the truth of both what he has stated, as well as myself; indeed, any departure from truth would defeat my object—hence, I shall be always ready to give proofs of all I have said, or may say; and these confirmed by the various experiments I am making on iron for railway purposes; and as I am spending some thousands of my own money in these experiments, I think I am fairly entitled to the assistance of all railway officials, and also of their employers.

All the railway companies to whom we have sent rails for trial have given us every attention except one, who, after keeping the rails more than a year, wrote to say that they would not lay them down at all unless they received them for nothing. We promptly complied with these terms (cheap enough), when we received another letter, saying that they would not lay them down at all. Perhaps they will be able to explain this treatment, as an opportunity will be afforded them to do so, and that publicly, before long.—G. B. Thorneycroft: Wolverhampton, June 5.

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# ON THE PURIFICATION OF GAS.

ON THE PURIFICATION OF GAS.

Sir,—Unacquainted with the English language, and subject to an incorrect translation of my letters, is a sufficient reason for my declining a lengthened correspondence, you will be good enough to insert this, my last letter. Neither Mr. Laming, nor his friend, have stated the truth in your last Journal. I have vainly searched in his vague specification and patent of 1847. I can positively declare that it does not, in the slightest degree, refer to, or speak of, "sulphate of lime." He knows as well as I do that I do not use, in the manufacture of my purifying powder, any kind of material for which he has been previously patented; therefore, I beg to confirm all I said in my last letter. The result of my lawsuit with M. Mallet is, that I caused to be annulled all his brevets for the purifica-

Different authorities vary as to the explosive point of gun-cotten between 350° and . The discrepancies, probably, arise from the several specimens being prepared by rent individuals.

tion of gas. I now leave you to judge how far Mr. Laming is to be believed, and whether, or not, I am the inventor of my own process, which is adopted in the principal gas-works of Paris, notwithstanding the said Mr. Laming's assertions about "the other side of the Channel." The letter, in your last Number, from "Veritas," contains no more truth than that of his friend. All I can say in his favour is, that he justifies remarkably well the proverb, which says, "You must not judge of a man by his name."—De Cavaillon: Paris, June 5.

[Any further communication.

nications, in reference to this subject, can only appear

ELECTRO-MAGNETISM AS A MOTIVE-POWER.

SIR,-Having long taken great interest in the solution of the highly Sir,—Having long taken great interest in the solution of the highly-important problem of the application of electro-magnetism as a motive-power, it was, with much pleasure, I heard Mr. Hunt state his views thereon at the Society of Arts—a very good paper on which you gave in the columns of the Mining Journal of the 25th May last. From the philosophical researches of Mr. Hunt, I believe he is correct in his statistical returns of the powers of electro-magnetism, and, as compared with coal and steam, as to its great inferiority in power, and excess in expense; but, although it may be tolerably well ascertained that the power of a battery in proportion to the loss of zinc is one hundred times more costly than the steam-engine, I trust the publication of these results of Mr. Hunt's investigations will not dishearten any of those lovers of science who may be prosecuting their researches in this highly interesting field. It is true that, from all we at present know of the best means of generating magnetism, the odds of producing an economicengine are against us; but it should also be remembered, that considerable improvements have already been made, and we must hope for more. A few years ago a circular motion only could be obtained from this power, and was converted into rectilinear by mechanism, and which, to be of any value, could not otherwise be obtained, from the very short distance at which the magnetic force acts. In Mr. Hjorth's rectilinear engine he has obtained a direct stroke of 17 inches by the application of hollow magnets, and I hope yet to see some unexpected results from the induced currents of magnetism caused by the intermittent motion of the magnets; and, as Mr. Hjorth has turned his attention to this point, I hope we shall shortly hear that still further advances have been made in the development of a power pervading all Nature in unimaginable quantity, and which is, doubtless, yet destined to become a mighty agent, when converted, by the ingenuity of man, to his own requirements.—S. A. B.: Crosby important problem of the application of electro-magnetism as a motive

### GOLD MINES OF THE ISTHMUS OF DARIEN-CANALISATION OF THE ISTHMUS, &c.

SIR,-I shall be extremely happy to find that Dr. Cullen's research and speculations are based on sound and unequivocal data, and worthy of public support. I feel a great interest for the country, and am at all times ready to assist in promoting every legitimate speculation, be it in mining

Str.,—I shall be extremely happy to find that Dr. Cullen's researches and speculations are based on sound and unequivocal data, and worthy of public support. I feel a great interest for the country, and am at all times ready to assist in promoting every legitimate speculation, be it in mining, roads, canals, or colonisation, connected with New Granada; and as I am officially consulted by the capitalists and the emigrants in matters of that kind, I trust Dr. Cullen will excuse my specific his having been examining the rivers and surferous toxics in the Graff of San Miguel, states that he "has not done any such foolish thing," and yet he informs us in the very same letter that his "researches were in the territory of Darien, at the sources of the River Tuyra," which is situated in the interior of the recesses of the Gulf of San Miguel, ascended the river Tuyra to Yawisa, then proceeded to escarch the various "quebradas" in the neighbourhood, and the Indians pointed out to him what he calls "the quarts rock mines of Darien, where the gold exists in the rocks, and where regular miners are required." Now, I beg to inform the doctor that, unless he rare required." Now, I beg to inform the doctor that, unless he read of the control of the substantial of the control of the substantial of the control of the substantial of the control of the process of the control of the substantial of the control of th

hurried visit.

In conclusion, I beg to repeat that it does not follow, because Dr. Cullen has examined the Rio Savana to the Fuerte del Principe, about 30 miles above its mouth (which many others have done before, and crossed to the Caribean coast), and ascended to the top of a tree on the summit of a mountain in the Rio Lara, that this place should be considered as "incomparably more eligible for intermarine communication than either the Lake of Nicaragua, the River Chagres, or the Atrato." It might be so as regards the latter; but the distance, the heights, and the cutting, are not proved yet as favourable as those of Chagres and the Bayano.

Evan Hopkins.

Austinfriars, June 6.

GOLD MINES OF THE DARIEN.

GOLD MINES OF THE DARIEN.

Sir,—My attention has been drawn to a communication in your interesting [Journal of the 18th of May last, from Dr. Callen, who I suppose has not received from the Darien. It is a some and the party sent from the suppose has put returned from the Some account of the party sent from the he carly part of 1847, to work the gold washings of the Darien. You doubtless remember that, in 1846, owing to the glowing representations made of the great abundance of gold in the Rio Cana and other streams within the Gulf of San Meignel, bordering the Santa Maria, by a Mr. Helert, who styled himself an engineer, and also his reports on the quick-silver mines alleged to have existed at Portobello, and other rich deposits in the Isthmus of Panama, with various official records to establish the fact, a company two fines of the sex and the sthmus of Panama, with various official records to establish the fact and the party, machinery, exc, were departed of 50,000 fr. A vessel and the Isthmus of Panama, with various official records to establish the fact, as other party, machinery, exc, with a capitale of 50,000 fr. A vessel and the Isthmus of Panama, with various official records to establish the fact as of may well suppose, were very high. In a few months afterwards we received the following letter from our agent at Panama—"We regret to inform you that the results of the examination in the rivers alluded to, near Yavisa, are not such as to warrant Mr. Helert's report, and we fear that he was either misled, or that he misrepresented the facts, as nothing is found yet beyond the ordinary washings, which are well known to the natives. All his reports have proved vague, loose, and totally unworthy of confidence, and, therefore, your ment be will furnish us with squainted with the country, its mines, &c., to proceed to Panama to investigate the matter on its behalf, and we shall avail ourselves of his professional advice on his arrival here." The result of which was that, when the party landed at Portobello, M pany had been deceived, and that accounted for Mr. Helert having left them at some of the islands, and not making his appearance there. Instructions were given to the party to sail forthwith to Chagres, and remain there until further orders. Many of the gold washings of Panama were tried, and all mines and specimens from the Darien, to Veraguas, were examined by different parties, and fully corroborated the statement made by Mr. Hopkins, as to their being of no value to a company, and only suitable to native washers and migrating gold dealers. In a short time some of the men returned home in disgust, others died at Panama, and he remainder took possession of a sugar-cane estate on the coast, and thus ended our gold speculations in the isthmus. This circumstance being still fresh in the memory of those at Panama, and as Dr. Cullen must doubtless have heard of it, I should esteem it as a particular favour if he can give us some idea of what was ultimately done with the remainder of the capital and the machinery.—M. L.—F.—E: Paris, June 5.

### MINE INSPECTION.

SIR,—It is very easy for persons to point out and enlarge on the danger of the poor collier, and to attribute the majority of accidents to the neglec of the poor collier, and to attribute the majority of accidents to the neglect of the proprietors; but what are the facts? We find, on careful investigation, that the most awful catastrophes from fire-damp, occur in some of the best-regulated collieries, in the north, as well as in Wales and other districts, so commonly condemned. If any good practical plan was suggested to prevent such explosions, it would be adopted, especially in those in which already everything which art can devise, or humanity suggest, is tried. The subdivision of the fresh air, and the separation of the foul air, is being carried on in the greatest perfection. Ventilating machines are employed for greater safety, and the strictest orders given to the men to avoid danger; yet, in spite of all, accidents occur—as witness the late calamity at Eaglesbush Colliery.

Is there a man of experience and judgment, who would take upon himself the heavy responsibility of preventing accidents in collieries by mere casual visits, or to come forward and give evidence of manslaughter against a manager of an unfortunate fiery colliery, who had done all that at could devise? I cannot conceive how a person of experience in mines, even locally, can suppose it possible that the occasional visits of an inspector could stop accidents, which the managers themselves are unable to do, owing often to causes over which they have no controul. Even Messes, Dunn and Richardson, who so strongly arged for compulsory measures against the views of "Black Diamond" and myself last year, were unable to make good their arguments before the Lords' committee. They must have seen the difficulties. The evils were evident, but not the remedies, as the following extracts will show:—

Extracts from the Evidence before Lord Wharncliffe.

J. RICHARDSON, Esq.—"What would be the powers which you think it would be right to confer upon such Government officers?"—"I should very much doubt the expediency of doing more than merely reporting upon the matter. I should rathe doubt entering into much minutise at first (as to compet them to have plans)."
"Of course that report would be evidence."—"Against the party."—"You sat that the report of an inspector of a mine would stand as evidence against the owner hereafter?"—"I do."

This is as much as to say, that the *ipse dixit* of perhaps a Government student, under the title of inspector, is to go upon the authority of a mero oath or affidavit against the proprietors and old experienced managers of an extensive and well-regulated mine, in case of an unforseen fatal acci-

"Has any Government inspector been sent to a colliary with which you have been concerned?"—"No; there has not been occasion."—"You have had no opportunity of judging of the justice of their reports?"—"No, I have not."

All the managers of the great collieries in the United Kingdom would and have made, similar replies to the last queries.—See Mr. Wood's Evi

dence, &c.

These viewers have no objection whatever to the appointment of Government inspectors, provided they should be sensible practical men, because their being appointed would silence the agitators in the event of casualties, and thus relieve the managers from public censure. But should improper, inexperienced, and overmeddling individuals be appointed, the apparent remedy would be worse than the disease. Such are the opinions of men of extensive experience in such matters, and who have as much consideration and philanthropic feelings for their fellow-creatures, exposed to the dangers of explosions, or to the storms at sea, as any of those who have been so loud in their cry for legislative interference.

I know, from many years' experience, what mining is,—the difficulties

to the dangers of explosions, or to the storms at sea, as any of those who have been so loud in their cry for legislative interference.

I know, from many years' experience, what mining is,—the difficulties of applying remedies to such accidents are greater than the ordinary observer can be at all aware of. I know also what Government inspectors are, from having had frequently to act with them. It is not many months since I was solicited to examine a case in dispute between the manager of a mine and a Government inspector on the continent, and which was decided in favour of the former; yet, notwithstanding that, the company had to incur a considerable expense to satisfy the caprice of the Government officials, merely to keep up useless byegone customs and mining laws, as unnecessary as unprofitable. Many of our mines which are now paying, and in which no accidents of any consequence occur, would be for ever closed were they subject to such mining restrictions as those in force on the continent. Being constantly engaged in the inspection of every description of mines in all countries, and practically acquainted with the subject, I have reason to state that there has been no plan yet proposed which will ensure a real redress to the grievances of the collier, better than that proposed by your talented correspondent Mr. Mushet. The arguments of "Black Diamond" and myself on the same subject were fally borne out in the evidence before Lord Wharucliffe's committee—therefore, those who have the colliers' welfare at heart, and who are aware of the difficulties in preventing accidents, ought to step forward and promote all plans, independent of mere inspection, which present some practical chance of being of effectual service to the poor collier:—such, for instance, as the establishment of a fund for the sufferers, and to establish local practical mining schools, so as to give an opportunity to practical more to render themselves better qualified for their posts.—EVAN HOPKINS: Austinfriars, June 5.

PROFESSOR ANSTED'S LECTURES ON PRACTICAL GEOLOGY.

PROFESSOR ANSTED'S LECTURES ON PRACTICAL GEOLOGY.

Sin,—I read, with much interest, your report (in the Journal of 25th instant) of Prof. Ansted's lectures on practical geology, delivered at the Royal Institution, but must confess there or two or three matters on which I should be glad to be enlightened. The learned professor states, that blacklead is one of the forms in which earbon presents itself as carbon; but graphite, or blacklead, has, by many chemists, been considered as a carbonet of iron; more recently, Dr. Karsten, of Berlin, states that native graphite consists of a mechanical mixture of charcoal and iron, containg from 4 to 10 per cent. of the latter; I would, therefore, submit, whether graphite is one of the conditions in which carbon is exhibited in sufficient purity to entitle it to classification with diamond. In alluding to the

Newcastle coal beds, the professor says, there are 18 workable beds, averaging from 2 ft. to 7 ft. in thickness, and that "the total average thickness of workable coal was about four yards." Now, 18 beds, of only 2 ft. thickness, will give 36 feet, or 12 yards; and 18 beds, of the average between 2 ft. and 7 ft., or 44 ft., will give a thickness of 81 ft. It is desirable some explanation of this anomaly may be given. In alluding to the coal-field of South Wales, the learned professor is stated to have said, that the coals were chiefly used in the district, "and for the steam navy, some of the seam yielding an anthracite coal, peculiarly serviceable for the latter." Surely, the professor is in error! The coals used by steamers are of a very different quality. The Llangennech, Graigola, and other coals designated as "steam-packet coals," are of the kind nearer approaching to a free-burning, and contain less bitumen than the strong coking coals. I believe anthracite has been very little used in the steam navy, principally on account of its liability to decrepitate; but this objection was completely obviated, by a form of 'urnace, for which a patent was obtained by Mr. John Player, about 12 years ago, but which (from some peculiar circumstances) was not kept sufficiently before the public to insure that more general adoption which its merits warrant. Prof. Ansted is also reported to say—"South Staffordshire was remarkable for containing the thickest beds of coal in this part of the world, they being often 10 ft. thick at one spot." Is it possible the learned professor can be ignorant of the celebrated ten-yard coal of that district, or is ten feet printed for ten yards, by error of the press?—Lusor: May 30.

[The substitution of 10 feet for 10 yards was an error of the press; and while making the correction, the reporter wishes us to state that, in his opinion, the

error of the press?—Lusor: May 30.

[The substitution of 10 feet for 10 yards was an error of the press; and while making the correction, the reporter wishes us to state that, in his opinion, the reading of "Lusor" is of a somewhat antiquated description, as in most modern works on mineralogy, blacklead is described as a form of carbon. "Lusor" must be a somewhat hypercritical personage, inasmuch as the phrase "anthractitic coal," used by Professor Ansted with reference to steamers, shows clearly that he did not mean a pure anthracite, but was indicating the very "steampacket coals" mentioned by "Lusor" himself. And that, with regard to the thickness of the Newcastle coal beds, although there are 18 workable beds, the, professor does not say that they are anywhere found together in one spot; but probably, was speaking of the general total average at any one spot as being 4 yards.]

MODERN FALLACIES.

SIR.—As there is a variety of opinion upon the stability of the new genus of Cost-book adventures professing to be "free of all calls and liabilities," a few observations from one who has seen the result of a similar system may prove instructive, and of interest to your readers. One whole-some example, Mr. Editor, is worth volumes of theory; I will, therefore, give you a brief history of a company, which will, I trust, open the eyes of the public to the deception that lurks beneath the glittering bait of "no calls! no liabilities!"

some example, Mr. Editor, is worth volumes of theory; I will, I trust, open the eyes of the public to the decoption that lurks beneath the glittering bait of "no calls! no liabilities!"

A few years ago, some ingenious individuals started a company to work a mine, which was to prove a certain fortune to all who embarked in it. The capital consisted of 20,000l., in shares of 20l. each, all paid up, and upon which it was stated no further call could possibly be required. The public, fascinated by the extraordinary prospects of the mine, eagerly purchased the shares, some of which were sold at a premium, and others at various prices. After a lapse of time matters did not present so flattering an aspect as was anticipated. The mine was in debt, and there were no funds to discharge the liabilities. The shareholders thought this strange, and very naturally asked what had become of the capital of 20,000. Enquiries were instituted, and it was found that the mine never had a capital at all; shares had been issued, representing certain portions of the paid-up capital, but the worthy promoters of the scheme had never paid one sixpence upon them. They formed the adventure, allotted the shares to themselves, represented to the public that the full amount had been paid upon the shares sold them (i. e., both the shares and the public), and coolly pocketted the proceeds, leaving the future proprietors to make the best they could of an unfortunate adventure. To get the mine out of debt, call after call was made; many persons refused to pay them, and, consequently, forfeited their shares; and so far from there being no liability beyond the amount as stated to have been originally paid, the calls were necessarily 10 times more frequent than they otherwise would have been upon the fair and legitimate system. This is one lamentable instance out of many. I know of another company introduced to parties upon the same principle. The concocters sold a moiety of the shares at high premiums, representing that the mine would be put to work

premium taken by the promoters for the introduction of the advention and that there is a host of liabilities impending over them which they cannot possibly avoid.

I would warn the public of venturing into speculations of so equivocal a character. The system of "no calls! no liabilities!" is nothing more than the latest modern piece of deception to entrap the unwary. Any person at all acquainted with cost-book companies knows well the fallacy of the new system; its sole object is to seduce the public into worthless adventures, to benefit a party of scheming individuals. I condemn them all; I unhesitatingly declare that not one of the companies thus established but will assuredly end in ruin to the shareholders, and it behoves every man who has the welfare of the mining interest at heart, to use every exertion to suppress anything at all calculated to cast an odium upon legitimate mining, and to deter capitalists from investments therein. That these new systems will have that tendency is beyond all doubt: based upon deception and fallacy, concocted by ignorant and scheming men, their result will be inevitable rain to those who are simple enough to repose confidence in their encouraging statements. One would imagine that the public has had too many bitter lessons to be again led away by such empty delusions, but that there still exists a deal of credulity, is evident from the numerous schemes daily springing up. To all who may poruse these, my observations, I say, in the words of an ancient monitor—"Be wise in time;" suffer not yourselves to be deluded by the artful representations of men whose objects are obvious. Mining, honourably conducted, is not free of liability; what, then, must you not expect if you venture into schemes whose nature is imposition and fallacy? Where there is much tinsel and gaudy attraction, depend upon it there is deception; and, when too late, the foolish speculator will find what a false delusive hope he has no content of the deception and the false delusive hope he has no content of t

WHITE GUNPOWDER. been exhibited at the Swansea Scientific Institution, which now appears to have been the invention of M. Augendre, and we are informed its real composition is two parts chlorate of potash, one part lump sugar, and one prussiate of potash; these ingredients being separately ground to a fine powder, are to mixed together with a spatula, or, on the large scale, by means of a rebe mixed together with a spatula, or, on the large scale, by means of a revolving barrel. The inventor insists upon its superiority over common gunpowder, as more powerful, less liable to be affected by damp air, and more saily and expeditiously prepared. This last property is put forward as rendering it highly important for ships use, as, in consequence, no large and dangerous magazines need be kept, the several ingredients can be securely stowed away ready prepared, and mixed as occasion may require. Notwithstanding these properties, the gases avolved rapidly corrode iron fire-arms, and another great objection is its combastibility—firing at a temperature a little above boiling water, while the slightest friction, even trituration in a smooth mortar, will cause it to explode. When very new and good, it may be exploded by a sharp blow, but it is not sufficiently detonating to become a fit material for percussion caps. The smallest portion of sulphur, charcoal, or common powder, when grinding, ronders it still more explosive, and the inventor, therefore, cautions against suffering it to become contaminated with such ingredients. It would thus appear that although the original and weaker gunpowder has had to withstand powerful adversaries in gun-cotton and this white powder, neither of them is likely to supersede its use.

THE CREBOR COPPER MINE.

The words "kindly" and "promising," have been so much used and abused in mine reporting, and the descriptions given of the causes which ought to produce the anticipated results, are in many cases so vague and unsatisfactory, that we have much pleasure in copying into our columns a report on the Crebor Mins, which has been recently issued to the adventurers in that concern, because it gives, in a simple and plain manner, matter of much interest to the general reader, and reasons for the expectation of future success, sufficient, we should think, to make the adventurers well pleased with their enterprize. We particularly notice that much pain have been taken to about the strike or bearing, and dip of the beds of kills, and the limits within which they in the lodes; and we shall be glad to see this example followed by mine reporters generally, wherever practicable, because it is now pretty well admitted that the bearing and dip of the "country" influences the direction and manner of deposit of the shoots of ore in the lodes, and that without good breeding ground, the conjunction of lodes with cross-courses, flockans, &c., will not produce deposits of the shoots of ore in the lodes, and that without good breeding ground, the conjunction of lodes with cross-courses, flockans, &c., will not produce deposits of the shoots of over in the lodes they are exploring; yet, in how many cases are mine agents almost with cross-course, flockans, &c., will not produce deposits of over in the lodes they are exploring; yet, in how many cases are mine agents almost "We recommend our mining friends to throw overboard at once the old anying of "where 'its, there 'its," which, although true enough in itself, has led many persons to treat with ricilical all attempts at systematising what they broadly state to be without rule or order; and they should reflect that, as every atom of matter in the universe is governed by absolute laws, so the deposits of ore in lodes are not the results of mere hazard, but are all

# ACCIDENTS.

Awful Explosion at Unscorth Colliery.—We regret we have to announce another of those fatal occurrences by which such numbers of our fellow-creatures are harried into eternity. It took place on Wednesday last, at nine of clock in the morning, at Usworth Collery, 10 miles from Sanderland, the property of Measrs. Jonassolm and Elliott, and is ventilated by a downesst shaft, 10 ft., in diameter, and an upcast 7ft. It is 180 fms. deep. There has always been kept up a constant circulation of 60,000 cubic feet of air per minute through the workings, and was considered by practical men a perfectly safe sinke. Not the least danger being feared, the 'men were working with naked candles, when a large blower suddenly burst out of the seam, ignited, and threw down a large mass of coal. Four men were severely burned, and numbers rendered perfectly insonable by 180 carbonic acid gas. The result, when the mine was cleared, was 11 men and 2 boys past recovery, and five who were brought out insensible, but, by prompt attention, are in a fair way of recovery. This is one of those instances in colliery operations in which no forethought, no precautions can prevent a catastrophe. The mine was one of the best ventilated in the northern districts; no explosion had ever occurred before, nor was there the slightest symptoms of any thing wrong, when a sudden blower from the Bensham seam (a very fiery one) cocasioned the fatal result; and, strange to say, a few hours after the mine was clear as ever, and on passing the spot it would be impossible to suppose such an accident had occurred, as scarcely any damage was done to say, a few hours after the mine was clear as ever, and on passing the spot it would be impossible to suppose such an accident had occurred, as scarcely any damage was done to say, a few hours after the mine was clear as ever, and on passing the spot it would be impossible to suppose such an accident had occurred, as scarcely any damage was done to the workings.

Montwearmouth Colliery.—As W. Barnes was hewing coals in M

\*Ampion.—William Piercy, while engaged as a banksman at the Brewery Col cidentally fell down the shaft of one of the pits, and was killed on the spot.

liery, accidentally fell down the shaft of one of the pits, and was killed on the spot.

Merthyr.—D. Davis was killed by a fall of coal at one of the Cwmbargod pits.

Bollon.—As Hampson Bridge (timekeeper at Mr. Peter Warburton's stone quarry,
Halliwell) was standing upon the rock, removing some "feigh," or top stratum (he had
been cautioned not to remain in that position), afall took place from the top, when he was
so alarmed that he fell down into the quarry, a depth of 12½ yards. He was dreadfully
braised, and subsequently died from the effects of the injuries.

Wheat Tretowny.—T. Treloar slipped his foot from a ladder, and fell to a depth of about
70 feet; he was dreadfully mutilated, and not likely to live.

Rockler Refer. — B. Kright, aged lo warn, was killed by a fall of coal, while working in

Rowley Regis.—B. Knight, aged 10 years, was killed by a fall of coal, while working in lears. Badger's Old Hall Colliery.

Tracroft Mine.—H. James was killed by the falling of a scale of ground.

Cook's Kitchen.—C. Chappel was killed while assisting in repairing the shaft.

Trespress Mine.—W. Dunstan fell from one of the ladders, in returning up from his ork, and was killed.

Tiplos.—J. Lemm was killed by a fall of coal at Messra. Caddick and Co.'s pit, Tividale.

Waitadi.—Peter Clarke, a lad 11 years of age, fell down the shaft of a colliery belonging to Mr. Haines, and was killed.

### COAL MARKET, LONDON. PRICE OF COALS PER TON AT THE CLOSE OF THE MARKET.

MONDAY.—Bate's West Hartiey 12 6—Buddle's West Hartiey 13—Carr's Hartley 13
East Adair's Main 11—North Percy Hartley 12 6—Did Tanfield 12—Ord's Redheugh 13 6
—Ravensworth West Hartley 13—Tanfield Moor 13—Tanfield Moor Butes 12 6—West
Wylam 13—Wylam 13 9—Wall's-End Acorn Close 14—Bell and Brown 13 9—Elm Park
13 9—Gibson 13—Hidds 13 3—Morrison 13 9—Original Gibson 13 6—Riddell 13 3—
Hetton 16 3—Haswell 16 6—Kepler Grange 15 3—Lambton 15 9—Russel's Hetton 15 9
—Stewart's 16 3—Hengel Hall 14 3—South Kelloe 14 3—Whitworth 12 6—Adelaide Tees
15 6—Maclean's Tees 13 3—Seymour Tees 13 9—Hartley 12 6—Howard's West Hartley
Richerton 13 6—Nixon's Merthyr and Cardiff 20—Sidney's Hartley 13 6—Whitworth
Coke 20.—Ships at market, 136; sold, 74.

WEDNEGRAY — Bately West Hartley 13—Ruddle's West Hartley 13—Carr's Hartley

Coke 30.—Ships at market, 136; sold, 74.

WEDNESDAY.—Bate's West Hartley 13—Buddle's West Hartley 13—Carr's Hartley 13—Darlson's West Hartley 13 6—East Adair's Main 11—Holywell 14—North Percy Hartley 13—Ravensworth West Hartley 12 9—South Peareth 11—Tanfield Moor 13—West Hartley 13 6—West Wylam 13.—Will's-Ead Bewicke and Co. 14—Gibson 12 9—Hilda 13 3—Hiddell 13 3—Walker 13 6—Eden Main 14 6—Cresswell 14 3—Russell's Hetton 15 9—South Eden 14 3—Stevart's 16 3—Whitwell 15 6—South Hartlepool 14 9—West Keilon 14—Whitworth 12 5—Adelaide Tees 15 3—Seymour Tees 13 9—Tees 16 3—West Pease 12 9—Covpen Hartley 13 6—Derwentwater Hartley 13—Hartley 12 6—Whitworth Coke 20.—Ships at market, 80; sold, 47.

ERIDAY.—Roddle's West Hartley 13—Carr's West Hartley 13.—East Adelr's Mein

wastworm Coke 20.—Ships at market, 80; sold, 47.

FRIDAY.—Buddle's West Hartley 13—Carr's West Hartley 13—East Adair's Main 116—Holywell 146—North Percy Hartley 13—Ord's Redheugh 13 6—Rawensworth West Hartley 13—Tanfield Moor 13—Wylam 13 6—Wall's-End Gilson 19 9—Hilda 13 3—Original Gilson 13 6—Farddyll 156—Richmund 14—Caradoc 14 6—Casop 14 6—Kelloe 15 3—South Kelloe 14—Thorniey 15—West Kelloe 14—Whitworth 12 6—Seymour Toes 13 6—Tees 16 3—Cowpen Hartley 13 6—Hartley 12 6—Nixou's Merthyr and Cardiff 20,—Ships a; market, 37; sold, 24.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

T. Page, of Middle Scotland-yard, Middlesex, civil engineer, for improvements in the construction and means of cleansing sewers.

E. J. Coates, of Bread-street, Cheupside, London, merchant, for improvements in the manufacture of boits, spikes, and nails.

M. Poole, gentleman, of the Patent Bill Office, London, for improvements in machinery for punching metals, and in the construction of springs for carriages and other uses.

A. Elliott, of Manchester, machine maker, and H. Heys, of the same place, book-keeper, for certain improvements in machinery for manufacturing woven fabries.

G. F. de Douber, gentleman, of Ciermont Ferrand, France, for improvements in the discognantion of certain bodies, and the application, separately or simultaneously, of the products therefrom to various useful purposes.

F. C. and G. Hills, of Deptford, Kent, manufacturing chemists, for certain improvements in manufacturing and refining sugar.

S. Brown, of Lambeth, Surrey, engineer, for improvements in engines for measuring and registering the flow of fluids and substances in a fluid state, which improvements are also applicable to steam and other motive engines.

J. Tucker, of the Royal Dockyard, Woolwich, Kent, shipwright, for improvements in seam-boliers, and in genging, end propolling vessues. (A communication.)

G. H. Ford, of St, Martin's-le-Grand, Middlesex, for improvements in obtaining power.

P. d'Angely, gentleman, of Paris, France, for certain improvements in the construction of privies and urinais, and in apparatus and machinery for cleansing privies, cesspools, and other places, and in deportering the wait-able for agricultural purposes.

D. and J. M. Napier, of the York-road, Lambeth, Surrey, engineers, for their invenible for agricultural purposes.

of privies and drinais, and in apparatus and manner.

other places, and in deodresing the matter extracted therefrom, and rendezing it available for agricultural purposes.

D. and J. M. Napier, of the York-road, Lambeth, Surrey, engineers, for their invention of maprovements in apparatus for separating fluid from other matters.

T. Cartall, of Manchester, merchant, for certain improvements in the treatment or preparation of yarns, or threads, for weaving. (Being a communication.)

W. Watson, jun., of Chapet Allerton, York, manufacturing chemist, for improvements in the preparation and manufacture of various materials to be used in the processes of dyeing, printing, and colouring.

J. Sykes and A. Ogden, both of Dock-street, Huddersfield, York, wool cleaners and achieve makers, for certain improvements in machinery for cleaning wool, cotion, and

machine makers, for certain improvements in machinery for cleaning wood, co-imilar fibrous substances from burrs, motes, and other extraneous matter. E. Sharpe, M.A., of Lanesster, for certain improvements in railway carriages. W. E. Newton, of Chancery-lane, civil engineer, for improvements applicable shoes, and other coverings for, or appliances to the feet. (A communication.) G. Jackson, of Belfast, Ireland, flax spinner, for improvements in heckling ma-John McNicoll, of Liverpool, engineer, for improvements in machinery for rai-covering weights.

John McNicoll, of Liverpool, engineer, for improvements in machinery for raising an conveying weights.

J. A. ii. Bell, New York, America, mevchant, for improvements in dressing bran pollard, and sharps. (A communication.)

W. Robertson, of dateside-hill, Keilstone, Renfrew, Scotland, machine-maker, for improvements in certain machinery used for spinning and doubling cotton, and othe fibrous substances.

# DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

F. West, Fleet-street, and Strand, radius rule.

W. Pope and Son, Edgeware-road, stop valves for the admission of hot and cold wifor bath and wash-house purposes.

J. Roo, West Bromwich, lock.

J. Marvin, London Gas Works, Vanxhall, portable smelting apparatus.

J. Heather, Bedford-court, Covent-garden, Blackwell's razor guard.

E. B. Mather, Oxford-road, Manchester, drag with moveable body.

J. Fenn, Newgate-street, cymameter.

W. P. Piggott, Oxford-street, galvanic belt.

J. Hill, Jermyn-street, the Chorelikopas, a portmanteau on a new construction.

W. J. Normanville, Queen's-road, Regent's Park, clastic attachment for the side che of railway carriages, waggons, &c.

G. Ingram, West Bank, Portobello, socket-joint for street and other drains.

J. Bessell, 7. Fatringdon-street, London, the invisible ventilator.

R. Calvert, M.D., Camden-street North, Camden New Town, self-adjusting brace,

G. Godsell, Regent-street, jupon chemise. — Mechanics' Magazine.

OURNAL, KAILWAT AND COMMEN	CIAL GAZETTE.	
I RON, HARDWARE, AND METAL TRADES' PENSION SOCIETY.—The NINTH ELECTION OF PENSIONERS will take place in NOVEM	EXHIBITION OF INDUST	FRY, 1851.—The following is the mounced up to this day (May 27) to the Royal
BER next. The candidates must be deserving and necessitous persons, occupying, o having occupied, the station of Master, Traveller, Clerk, Warehouseman, Forenan, or Approntice, in any branch of the Iron, Hardware, and Metal Trades, in any part of Gres	amount at present reported by each town.	or succeriptions made by them, and the total
Britain, or the Widows of such persons.  Frinced forms of application, on the recommendation of two subscribers, may be had  of the undersigned, to whom they are to be returned, filled up with the required parti- culars, on or before the 5th August next, after which day no application relating to this		Kirkenldy
Further information may be obtained on application to G. S. NOTTAGE, Sec.	Alton	Lancaster—2 roturns
On the 27th of May three additional pensioners were elected to pensions of 20 guineas per appure each -viz., Charles Emery, Hapry Lee, and Sarah Brown.	Arbroath 9 7 6	Launceston
BANK OF BRITISH NORTH AMERICA, Incorporated by Royal Charter.—The Court of Directors hereby give Notice, that a HALF-	Ashton-under-Lyne	Lowes = 2 returns   103 7 6   Lichfield = 1 return   26 11 0   Limerick
TEARLY DIVIDEND, at the rate of δ per cent, per annum on the capital of the bank, will be PAYABLE to the proprietors of ahares, registered in this country, on and after the 5th day of July next, at the office of the Corporation, 7, 3t. Helen's-place, Bishops-		Lincoln
gale-atreet, between the hours of Ten and Four. No transfer can be made between the 15th inst. and the 5th proximo, as the books must be closed during that period.  By order of the Court,  G. DE B. ATTWOOD, Secretary.  7. St. Helen's-place, London, June 5, 1850.	Butley—I return	Liverpool—I reture. 927 13 0 Linelly—2 returns 141 4 2 London—4 returns 25430 17 Ditto, Ladies—3 returns 660 2 0
CITEAM TO INDIA AND CHINA, VIA EGYPT.—Regular	Berwick, North 91 19 6	London (South) i return 252 15 6 Louth
MONFILLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to CEYLON, MADRAS, CALCUTTA, PENANG, SIRGAPORE, and HONG-KONG. THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY	Bilston	Manchester—3 return 3500 15 0
BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th of every month; and from Sues on or about the 10th of the month.	Blackburn-4 returns 775 0 0	Mariborough
BOMBAY.—Passengers for Bombay can proceed by this company's steamers of the 29th of the month, to Malta, thence to Alexandria by her Majesty's steamers, and from Suez	Bradford (Yorksh.)-2 returns 1495 0 04	Montreal (Canada)
by the Honourable East India Company's steamers.  MEDITERRANEAN.—MALTA—On the 20th and 29th of every month. Constanti- morts—On the 29th of the month. ALEXANDRIA—On the 20th of the month.	Braintree 10 10 0 Brennford 10 10 0	Montrose—i return 56 1 0 Newark
SPAIN AND PORTUGALVigo, Oporto, Lisbon, Cadiz, and Gibraltar, on the 7th 17th, and 27th of the month.	Brentwood	Newcastle-on-Tyne- 4 returns   518 16 0   Newnham-1 return   53 5 0   Newport (Mon.)—2 returns   75 18 6   North Allerton—1 return   22 0 0
For plans of the vessels, rates of passage-money, and to secure passages and ship cargo, apply at the company's offices, No. 122, Leadenhall-street, London; and Oriental-place, Southampton.	Bridington   Bridon-3 returns   69 19 0   Bristol - 3 returns   706 1 6   Bromagrove	Northampton—2 returns 56 10 0 Norwich—1 return 330 13 6
INDURATED AND IMPERVIOUS STONE, CHALK, &c.  AGENTS, with capital, are WANTED in all TOWNS to SUPPLY (under British	BuckinghamBurnleyBurton-on-Treut	Nottingham—1 return 890 12 6 Odiham Okehampton
and Foreign Patents) the great demand for HUTCHISONISED MATERIALS—hard as granite, impervious to moisture, vermin, &c., the cheapest and most durable for all buildings, hydraulte, paving, monumental and decorative work.—The profits are large.  140, Strand, London: or Tunbridge Wells, Kent, and Caue, Normandy, stating name,	Bury St. Edmunds I roturn 26 19 0 Bury (Lancashire)	Oldham—I return 84 13 0 Oxford—2 returns 200 0 0 Paisley
Apply to HUTCHISON & CO., 140, Strand, London; or Tunbridge Wells, Kent, and Caen, Normandy, stating name, address, and capital at command.	Cambridge Univer.—3 returns 149 0 0 0 — Town—3 returns 139 15 0	Perth 90 12 0
address, and capital at command.  N.B.—Houses cured of damp. The produce of soft stone quarries, chalk, plaster of Paris, wood, pasteboard, and all absorbent materials indurated to resist frost, vermin, &c.  LICENCES GRANTED.	Canterbury - 1 return	Pocklington
PATENT IMPROVEMENTS IN CHRONOMETERS WATCHES AND CLOCKS.	Cheltenham—I return 164 14 6 Chelmsford—I return 78 18 0	Port-Glasgow
E. J. DENT, 82, Strand; 33, Cockspur-street; 34, Royal Exchange (clock tower area), Watch and Clock Maker, BY APPOINTMENT, to the Queen and his Royal Highness Prince Albert, begs to acquaint the public, that the manufacture of his chronometers,	Cheisea—1 return	Putney
watches, and clocks, is secured by three separate patents, respectively granted in 1836, 1840, 1842. Silver lever watches, lewelled in four holes, 6, gs. each; in gold cases, from 85 to £10 strue. Gold horizontal watches, with gold dials, from 8 gs. to 13 gs. each.	Chippenham—1 return 21 7 0 Chorley	Reigate
DENT'S PATENT DIPLIEDOSCOPE, or Meridian Instrument, is now ready for delivery.—Pamphiets containing a description	Coggeshall	Rochester
and directions for its use is, each, but to customers gratis.	Congleton—I return 29 18 0 Cork Coventry	Romsey 69 0 0 Rotherham—2 returns 69 0 0 Rugby Runcorn
WINDING-UP OF JOINT-STOCK COMPANIES.—The affairs of the following un- dertakings are to be wound up:—Imperal Salt and Alkali Company, the Dol- phin Club, the Colchester Junction Railway, and the Tirhoot Company. Mr.	Cupar	Sallsbury—1 return 62 3 0
Barlow has been appointed official manager to wind up the affairs of the Kings- and Literary Institution, and Mr. Hutton to settle those of the Peterborough and Wisbeach Railway.	Dartmouth	Selkirk Settle
MADRID AND VALENCIA.—Yesterday Master Blunt granted his certificate against Mr. Rose, who still refuses to surrender the books and papers, and an	Devizes—1 return	Sherness - 2 returns 24 10 0 Sheffield—1 return 844 19 0
order for the committal of Mr. Chadwick.	Doreliester	Shirley         297         3         0           Skipton         297         3         0           Scolety of Arts         995         6         0
THE IRON DOME OF THE INTERNATIONAL EXHIBITION HALL.—The con- truction of this dome, 200 ft. in diameter, though of light sheet-iron, will be to joke. We may remind the reader that it will be double the size of our St.	Dublin	Southampton—1 return 350 0 0 Southport
Paul's dome, which is about 112 feet in diameter; the dome of St. Peter's, at tome, is 139 feet in diameter; and that of the Pantheon, 142 feet. This cental hall will be a polygon of sixteen sides, four of which will open into gardens round it. Its main walls will be of brick, and about 60 ft. h igh.—Builder.	Dunbar	South Shields
round it. Its main walls will be of brick, and about 60 ft. h igh.—Builder.	Durham—1 return 139 12 10 Edinburgh—1 return 446 14 6 Eigin	Stafford—I return 30 0 0 8t. Andrews
Rew Patents.	Falmouth—i return 20 18 0	St. Colomb
SPECIFICATIONS ENROLLED DURING THE PAST WEEK. G. E. DONISTHORFS, Leeds, York, manufacturer: For improvements in wheels of lo-	Farnham Fleetwood Forfar Frome	Stockport—I return         292 0 0           Stockton—I return         65 13 6           Stoke-upon-Trent         65 13 6
omotive carriages. The running surface of the driving wheel is composed of a number findependent blocks, which rest upon a ring of valcanised India-rubber, or other suit- ble clastic material. The blocks are supported by means of bolts attached to the inside	Galashiels	Storehouse—I return         18 11 0           Stourbridge—I return         77 6 0           Strond—I return         92 16 0
f the flange, which take into slots in the sides of the blocks provided for that purpose, o as to allow them a certain amount of play.  Cation.—The manufacture of the driving wheels of locomotives with running surfaces, ach composed of several separate and independent parts, whereby a greater amount of	Gosport 73 5 0	Sunderland -1 return
ach composed of several separate and independent parts, whereby a greater amount of earing surface is obtained.  J. U. Strausino, Margaret street, Cavandish-square: For improvements in the manu-		Wartes : roturns
cture of axletree boxes for carriages, and of the bearings of the axles of railways, and making of an alloy of metal suitable for such and like purposes. This invention consists. —I. In pouring a melted soft metal through holes in the box; which, when cold,	Guildford - 2 returns 116 10 0	Towicis urg - 1 return 20 13 0 Tivertop
ncircles the axle, and adheres firmly to the box. To provide for the admission of some ibricating substance to between the axle and the soft metal, a piece of cloth is previously	Haddington	Tower Hamlets
wisted round a portion of the circumference of the axle, and under one of the holes in he box.—9. In certain apparatus for moulding the bearings of railway axis.—3. In the nanufacture of the soft metal, which is composed of 75 parts, by weight, of sinc, 18 parts	Hampstead	Uttoxeter—I return       30       0       0         Wakefield—I return       240       10       0         Walsail—I return       40       11       6
nanufacture of the soft metal, which is composed of 75 parts, by weight, of zinc, 18 parts ft in. 44 of lead, and 24 of antimony. The zinc, tin, and lead are melted together, and se antimony, which has been previously melted at a higher temperature, is then poured in.—The cla ms embrace the improvements as described in the specification, and exemited the interesting the second of the specification.	Hastings—2 returns 100 4 0	Warrington—4 returns 196 15 6 Warwick
lified by the drawings which secompany it.  LIST OF PATENTS GRANTED DURING THE PAST WEEK.	Hereford—3 returns 85 7 0 Hertford—1 return 23 2 6	Wellington (Salop)
T. Page, of Middle Scotland-yard, Middlesex, civil engineer, for improvements in the onstruction and means of cleaning severs: E. J. Coates, of Bread-street, Cliespaide, London, merchant, for improvements in the	Honiton 866 15 6 Hull—2 returns 209 14 0	Wexford -2 returns 3 17 6
anufacture of bolts, spikes, and mails.  M. Poole, gentleman, of the Patent Bill Office, London, for improvements in machi- ery for purching metals, and in the construction of springs for carriages and other uses.	Huntingdon – i return 50 2 6 lifracombe	Whitby
A. Elliott, of Manchester, machine maker, and H. Heys, of the same place, book-	- Newport -1 return 76 13 0	Windsor—2 returns 385 14 0
G. F. de Douhef, gentleman, of Clermont Ferrand, France, for improvements in the dis- tygenation of certain bodies, and the application, separately or simultaneously, of the reducts therefrom to various useful purposes.  F. C. and G. Hills, of Deptford, Kent, manufacturing chemists, for certain improve-	Jedburgh	Wolverton
tygenanon of certain bones, and the application; separatory or annitationary, of the reducts therefrom to various useful purposes.  F. C. and G. Hills, of Deptord, Kent, manufacturing chemists, for certain improvements in manufacturing and refining sugar.  S. Brown, of Lambeth, Surrey, engineer, for improvements in engines for measuring all registering the flow of fluids and substances in a fluid state, which improvements re also applicable to steam and other motive engines.	Jersey—2 returns 256 9 6  Keighley—1 return  Kendal—2 returns 117 12 0	Worthing—I return 33 0 6 Yarmouth, Great 70 15 0
re also applicable to steam and other motive engines.  J. Tucker, of the Royal Dockyard, Woolwich, Kent, shipwright, for improvements in earn-boilers, and in genting, cleaping, and propalling yearsh.	Keswick—1 return 290 15 0  Keswick—1 return 20 3 0  Kidderminster—2 returns 169 4 6	York—I return 7, 6 0
G. Tucker, of the Royal Dockyard, Woolwich, Kent, shipwright, for improvements in cam-boilers, and in gearing, cleaning, and propelling vessels. (A communication.). G. H. Ford, of St., Martin's-le-Grand, Middlesex, for improvements in obtaining power. P. d'Angely, gentleman, of Paris, France, for certain improvements in the construction privies and urinals, and in apparatus and machinery for cleaning privies, esspeois, and	Kilmarnock	Total£52,939 7 94 —ASSAYS and ANALYSES
privies and unions, and in apparatus and machinery for cleaning privies, cospools, and	A STATE OF THE STA	WILL STREET AND STREET OF STREET

SSAYING AND ANALYSIS.—ASSAYS and ANALYSES of MINERALS, METALS, SOILS, FURNACE, and all other MANUFACTURGG PRODUCTS. INVENTORS and INTENDING PATENTEES assisted in PEREUTING any INVENTION involving an intimate knowledge of chomistry.
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MASTERS PATENT SHERRY COBBLER FREEZING AND COOLING JUG,

For producing Pure Ice from Spring Water, on your own table, in five minutes, without the aid of ice, by his Freezing Mixture, which will produce ice in one minute in the hottest climate.

Every description of APPARATUS for PRODUCING ICE ABTIFICIALLY.

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